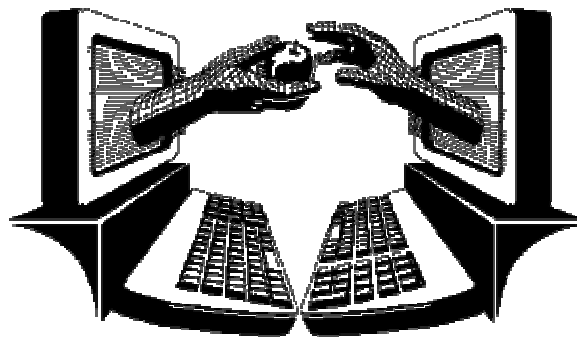


Review of
Kansas Department of Health and Environment
Health Occupations Credentialing
Professional Data
2001

Health Care Data Governing Board

Roderick L. Bremby, Chairman



September 2003

Review of
Kansas Department of Health and Environment
Health Occupations Credentialing
Professional Data

2001

Prepared by:

Kansas Department of Health and Environment
Center for Health & Environmental Statistics
Office of Health Care Information

Phone: (785) 368-7394
FAX: (785) 368-7118

Table of Contents

Table of Contents.....	i
List of Figures and Tables	iii
Executive Summary.....	1
Introduction.....	2
Speech Language Pathologists	4
By Age and Gender	5
By Education	5
By Employment Status	6
By Function and Primary Place of Practice	7
By First Kansas County of Practice	8
By Peer Groups of Counties	9
By Full Time Equivalents	9
National Rankings	9
Audiologists	10
By Age and Gender	11
By Education	12
By Employment Status	12
By Function and Primary Place of Practice	13
By First Kansas County of Practice	14
By Peer Groups of Counties	15
By Full Time Equivalents	15
National Rankings	15
Dietitians	16
By Age and Gender	17
By Education	18
By Employment Status	19
By Function and Primary Place of Practice	20
By First Kansas County of Practice	21
By Peer Groups of Counties	22
By Full Time Equivalents	22
Adult Care Home Administrators	23
By Age and Gender	24
By Education	25
By Employment Status	26
By Function and Primary Place of Practice	27
By First Kansas County of Practice	28
By Peer Groups of Counties	29
By Full Time Equivalents	29

Certified Nurse Aides	
By Age and Gender	31
By County of Residence	32
By Peer Groups of Counties	33
Certified Medication Aides	34
By Age and Gender	35
By County of Residence	36
By Peer Groups of Counties	37
Certified Home Health Aides	38
By Age and Gender	39
By County of Residence	40
By Peer Groups of Counties	41
Appendix A: Kansas Department of Health and Environment, Health Occupations Credentialing, Information Inventory	42
Appendix B: Persons per Professional by First Kansas County of Practice	45
Appendix C: Persons per Professional by County of Residence	50
Appendix D: Peer Groups of Counties	54
Appendix E: Persons per Full Time Equivalent (FTE) Professional by County of Practice	57
Calculation of Full Time Equivalents (FTEs)	58
Appendix F: National Rankings	63

List of Figures and Tables

Figure 1: Speech Language Pathologists by Age Group by Gender	5
Figure 2: Employment Status for Speech Language Pathologists	6
Figure 3: Speech Language Pathologists by Major Function and Primary Place of Practice	7
Figure 4: Persons per Speech Language Pathologist by First Kansas County of Practice	8
Figure 5: Persons per Speech Language Pathologist by Peer Group of Counties	9
Figure 6: Audiologists by Age Group by Gender.....	11
Figure 7: Employment Status for Audiologists	12
Figure 8: Audiologists by Major Function and Primary Place of Practice	13
Figure 9: Persons per Audiologist by First Kansas County of Practice	14
Figure 10: Persons per Audiologist by Peer Group of Counties	15
Figure 11: Dietitians by Age Group by Gender.....	17
Figure 12: Dietitians by Education.....	18
Figure 13: Employment Status for Dietitians	19
Figure 14: Dietitians by Major Function and Primary Place of Practice.....	20
Figure 15: Persons per Dietitian by First Kansas County of Practice	21
Figure 16: Persons per Dietitian by Peer Group of Counties	22
Figure 17: Adult Care Home Administrators by Age Group by Gender.....	24
Figure 18: Adult Care Home Administrators by Education.....	25
Figure 19: Employment Status for Adult Care Home Administrators	26
Figure 20: Adult Care Home Administrators by Major Function and Primary Place of Practice	27
Figure 21: Persons per Adult Care Home Administrator by First Kansas County of Practice	28
Figure 22: Persons per Adult Care Home Administrator by Peer Group of Counties	29
Figure 23: Certified Nurse Aides by Age Group by Gender	31
Figure 24: Persons per Certified Nurse Aide by County of Residence	32
Figure 25: Persons per Certified Nurse Aide by Peer Group of Counties	33
Figure 26: Certified Medication Aides by Age Group by Gender	35
Figure 27: Persons per Certified Medication Aide by County of Residence	36
Figure 28: Persons per Certified Medication Aide by Peer Group of Counties	37
Figure 29: Certified Home Health Aides by Age Group by Gender	39
Figure 30: Persons per Certified Home Health Aide by County of Residence	40
Figure 31: Persons per Certified Home Health Aide by Peer Group of Counties	41
Figure D-1: Peer Groups of Counties, Kansas, 2001	56

Table 1: Speech Language Pathologists by Age Group by Gender.....	5
Table 2: Speech Language Pathologists by Function by Primary Place of Practice	7
Table 3: Audiologists by Age Group by Gender	11
Table 4: Audiologists by Function by Primary Place of Practice.....	13
Table 5: Dietitians by Age Group by Gender	17
Table 6: Dietitians by Function by Primary Place of Practice.....	20
Table 7: Adult Care Home Administrators by Age Group by Gender	24
Table 8: Adult Care Home Administrators by Function by Primary Place of Practice.....	27
Table 9: Certified Nurse Aides by Age Group by Gender	31
Table 10: Certified Medication Aides by Age Group by Gender.....	35
Table 11: Certified Home Health Aides by Age Group by Gender	39
Table B-1: Persons per Speech Language Pathologist by First Kansas County of Practice	46
Table B-2: Persons per Audiologist by First Kansas County of Practice	47
Table B-3: Persons per Dietitian by First Kansas County of Practice.....	48
Table B-4: Persons per Adult Care Home Administrator by First Kansas County of Practice	49
Table C-1: Persons per Certified Nurse Aide by County of Residence	51
Table C-2: Persons per Certified Medication Aide by County of Residence	52
Table C-3: Persons per Certified Home Health Aide by County of Residence.....	53
Table E-1: Persons per FTE Speech Language Pathologist by County.....	59
Table E-2: Persons per FTE Audiologist by County	60
Table E-3: Persons per FTE Dietitian by County.....	61
Table E-4: Persons per FTE Adult Care Home Administrator by County	62
Table F-1: Ranking of Persons per Speech Language Pathologist by State	64
Table F-2: Ranking of Persons per Audiologist by State	65

Executive Summary

Questionnaires returned with 2000 and 2001 license renewal applications for speech language pathologists, audiologists, dietitians and adult care home administrators and data received from Health Occupations Credentialing for 2001, quarter 4, for certified nurse aides, certified medication aides and certified home health aides showed that:

- The majority of professionals were female in all professions: speech language pathologists (94.9%), audiologists (71.4%), dietitians (98.3%), adult care home administrators (62.9%), certified nurse aides (90.1%), certified medication aides (93.0%), and certified home health aides (94.8%).
- For audiologists, dietitians and adult care home administrators, the largest number of professionals were in the 45-54 age group. For speech language pathologists, certified nurse aides, certified medication aides and certified home health aides, the largest number of professionals were in the “under 35” age group. Over half of certified nurse aides were less than 35 years of age.
- Of the four occupations with questionnaire data, dietitians had the greatest percentage of part time workers (27.7%), and adult care home administrators had the greatest percentage of workers employed in a different field or specialty (20.4%).
- The primary function by place of practice for speech language pathologists was clinical at an educational facility, for audiologists it was clinical at a physician’s office, for dietitians it was clinical at a hospital, and for adult care home administrators it was managerial at a residential care home.

In general, there were fewer persons per speech language pathologist, audiologist and dietitian in counties with higher population density. There were fewer persons per adult care home administrator, certified nurse aide, certified medication aide and certified home health aide in counties with lower population density.

Introduction

This document, “Review of Kansas Department of Health and Environment, Health Occupations Credentialing, Professional Data, 2001”, is part of a series of publications requested by the Health Care Data Governing Board to make information available about the health care system in the state of Kansas. A brief summary regarding the request for an inventory of health care professionals, of which this document is a part, can be found in the series preface at the beginning of the associated notebook.

This document provides an overview of professionals credentialed by the Kansas Department of Health and Environment, Health Occupations Credentialing. Health Occupations Credentialing issues licenses to speech language pathologists, audiologists, dietitians and adult care home administrators. Certification programs include nurse aides, medication aides, and home health aides.

Data for this report for speech language pathologists, audiologists, dietitians and adult care home administrators were compiled from questionnaires returned by these professionals with their license renewal applications (see Appendix A for a sample questionnaire). Information for certified nurse aides, medication aides and home health aides was compiled from licensure data provided to the Office of Health Care Information by Health Occupations Credentialing. This data allows for the computation of age and gender statistics and for demographic analysis by county of residence, but does not contain the variables for analysis by employment status, function, place of practice, county and peer group of practice, and full time equivalent (FTE) professional by county as does questionnaire data.

All professionals licensed by Health Occupations Credentialing renew their credentials every two years, on an alternating schedule. That is, half of each profession receives renewal forms each year. Therefore, data for this report were gathered from questionnaires returned in 2000 and 2001.

Certain analyses require some background information. Analysis of the number of professionals by county of practice relies on the fact that the questionnaire asks questions about the primary, secondary and tertiary place of practice (Appendix A, question 21), from which this report focuses on county of practice and hours practiced. These variables are analyzed in several different ways. First, professionals are counted by the first practice site they list which is in a Kansas county. For example, if a professional's primary place of practice is in Missouri and his secondary place of practice is in Johnson County, Kansas, he is counted as a professional practicing in Johnson County.

Secondly, each county has been grouped with counties of similar population density into one of five “peer groups” (see definition in Appendix D), and charts have been prepared of persons per professional by peer group.

Lastly, full time equivalents (FTEs) have been calculated for each profession by county. A full time equivalent is considered to be 40 hours per week of professional practice. Therefore, if one speech language pathologist, for example, practiced 20 hours per week in Johnson County (as a primary, secondary or tertiary site) and another speech language pathologist also practiced 20 hours per week in Johnson County (as a primary, secondary or tertiary site), the two together would account for one FTE speech language pathologist. Please see Appendix E for a further discussion of calculation of full time equivalents.

Speech Language Pathologists

Qualifications for licensure. *Speech-language pathologists or audiologists shall meet the following qualifications for licensure under this act:*

- a) Possession of at least a master's degree or equivalent in speech-language pathology or audiology from an educational institution with standards consistent with those of the state universities of Kansas approved by the secretary pursuant to rules and regulations;*
- b) Completion of supervised clinical practicum experiences from an educational institution or its cooperating programs the content of which shall be consistent with the standards of the state universities of Kansas and delineated in the rules and regulations;*
- c) Completion of a postgraduate professional experience pursuant to rules and regulations;*
- d) Passage of an examination in speech-language pathology or audiology pursuant to rules and regulations (KSA 65-6505).*

Licenses for speech language pathologists expire biennially on October 31, with approximately half of the professionals receiving license renewal forms each year. The following demographic information is based upon the 1,281 completed questionnaires received from the 1,329 speech language pathologists who renewed their licenses in 2000 and 2001.

Speech Language Pathologists by Age and Gender

Nearly 95 percent of speech language pathologists overall were female. The highest number of speech language pathologists were in the “under 35” age group, closely followed by the 45-54 and 35-44 age group (Figure 1 and Table 1).

Figure 1. Speech Language Pathologists by Age Group by Gender

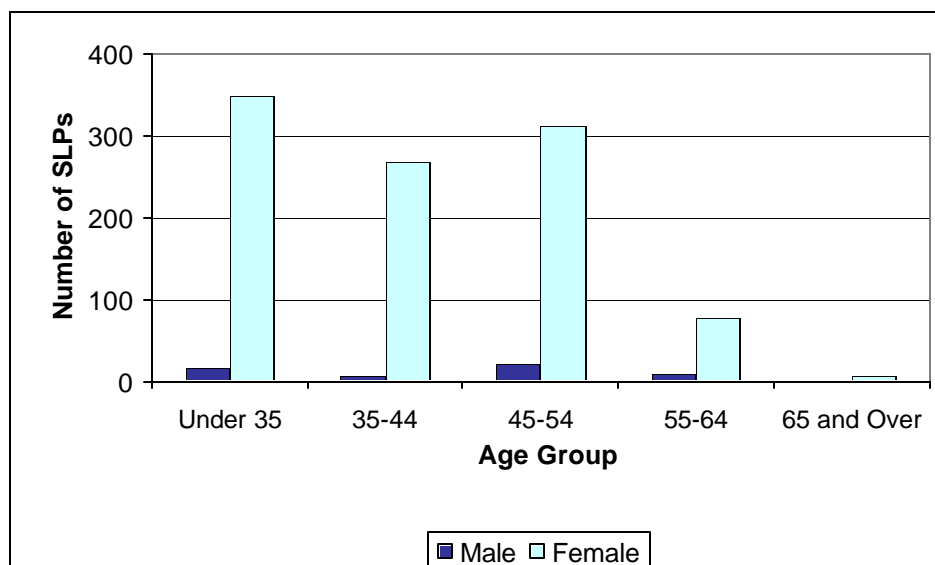


Table 1. Speech Language Pathologists by Age Group by Gender

Age Group	Males		Females		Gender Not Stated	Total
	Number	Percent	Number	Percent		
Under 35	16	4.4	349	95.6	57	422
35 – 44	5	1.8	267	98.2	44	316
45 – 54	22	6.6	313	93.4	50	385
55 – 64	8	9.5	76	90.5	28	112
65 and Over	2	25.0	6	75.0	2	10
Age Not Stated	3	-	25	-	8	36
Total	56	5.1	1,036	94.9	189	1,281

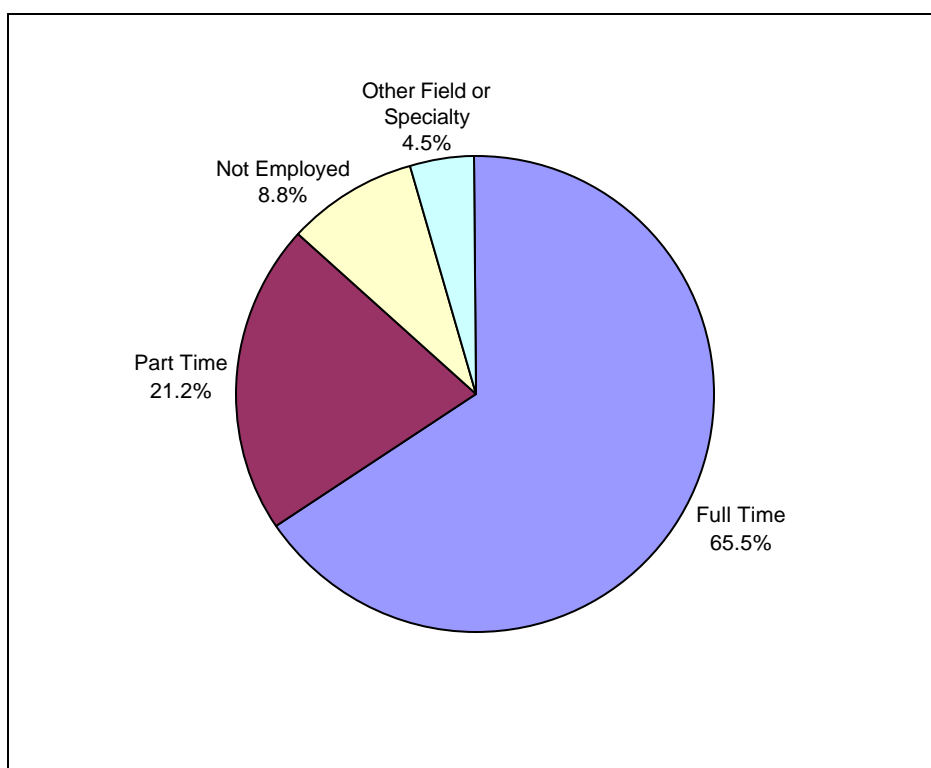
Speech Language Pathologists by Education

The majority of speech language pathologists (93.3%) listed a master's degree as the highest level of education achieved, which is to be expected, since licensure as a speech language pathologist requires the possession of "at least a master's degree or equivalent."

Speech Language Pathologists by Employment Status

Most speech language pathologists (65.5%) were employed full time in their licensed profession. There were 21.2 percent who indicated that they were employed part time as speech language pathologists, 8.8 percent who were unemployed and 4.5 percent employed in another field or specialty (Figure 2).

Figure 2. Employment Status for Speech Language Pathologists



Speech Language Pathologists by Function and Primary Place of Practice

The largest number of speech language pathologists who indicated function and primary place of practice were doing clinical work at an educational facility, followed by being an educator at an educational facility, doing clinical work at a governmental agency and doing clinical work at a hospital (Figure 3 and Table 2).

Figure 3. Speech Language Pathologists
By Major Function and Primary Place of Practice

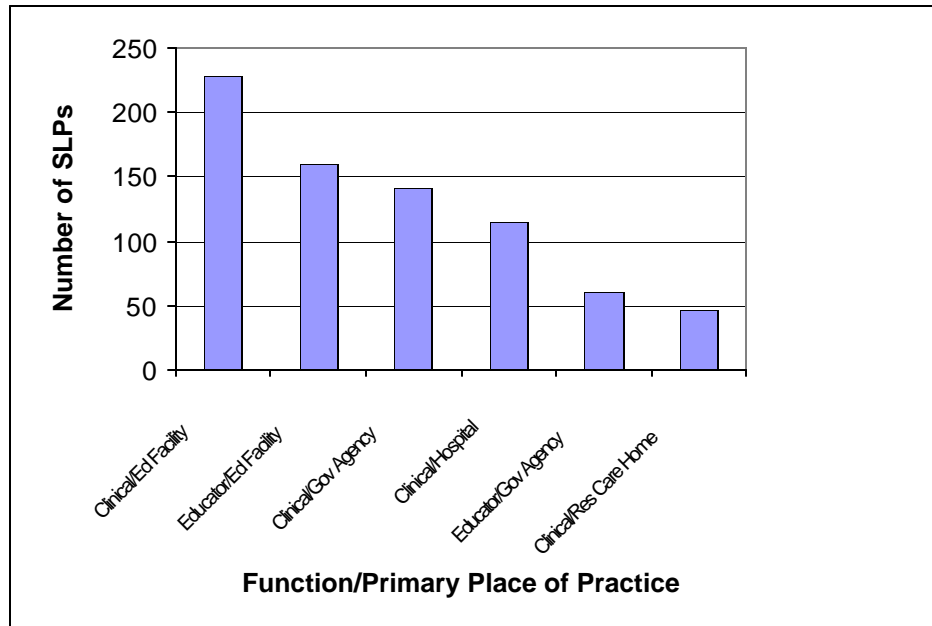


Table 2. Speech Language Pathologists
By Function by Primary Place of Practice *

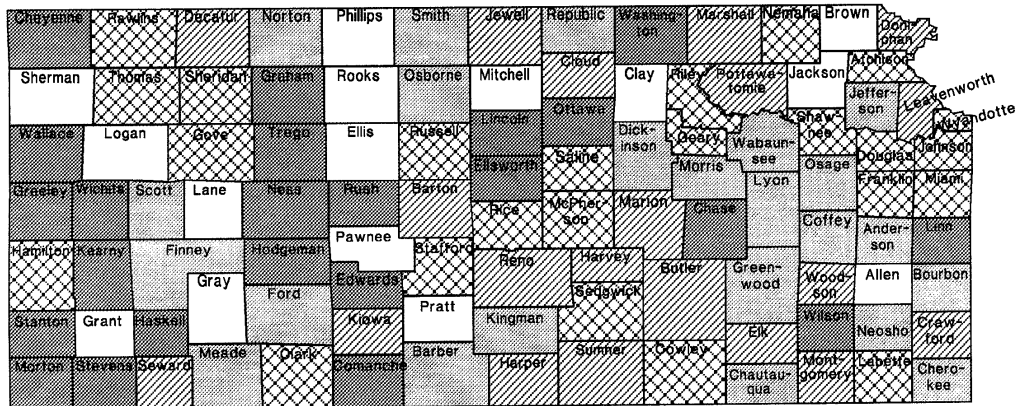
Primary Place of Practice	Function				
	Consultant	Clinical	Management	Educator	Other
Residential Care Home	7	46	3	1	0
Hospital	8	115	9	0	1
Governmental Agency	25	142	20	61	8
Community Agency	3	7	2	1	0
Home Health Agency	1	22	1	0	1
Physician's Office	0	6	0	0	1
Clinic	1	32	1	1	1
Outpatient Rehab Center	0	7	0	0	0
Private Industry	2	24	2	0	1
Educational Facility	29	228	18	160	7

* Primary place of practice was not stated for 230 speech language pathologists.
Function was not stated for 265 speech language pathologists.

Speech Language Pathologists by First Kansas County of Practice

Counties with the fewest persons per speech language pathologist included Jackson (431), Logan (580), Grant (965), Lane (1,034), and Phillips (1,147). There were 23 counties with no speech language pathologists and another 25 counties with only one speech language pathologist (Figure 4 and Appendix B, Table B-1).

Figure 4. Persons per Speech Language Pathologist
By First Kansas County of Practice
Kansas, 2001



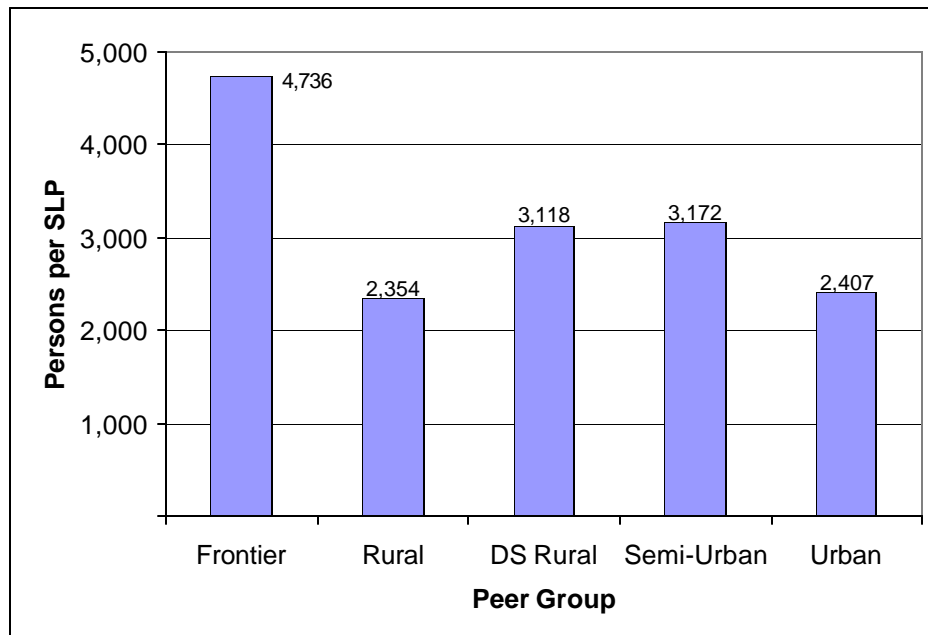
For Kansas as a whole,
there were 2,040 persons
per speech language pathologist.

LEGEND	
	Less than 2,000
	2,000 - 2,999
	3,000 - 3,999
	4,000 and Over
	No SLPs

Speech Language Pathologists by Peer Groups of Counties

There was the greatest number of persons per speech language pathologist (4,736) in frontier counties, and the fewest (2,354) in rural counties, with no clear pattern of increase or decrease with increase in population density (Figure 5) (for the definition of *peer groups of counties*, see Appendix D).

Figure 5. Persons per Speech Language Pathologist by Peer Group of Counties



Speech Language Pathologists by Full Time Equivalents

Counties with the fewest persons per full time equivalent (FTE) speech language pathologist included Logan (627), Grant (1,197), Gray (1,388), Ellis (1,625), and Allen (1,652). There were 18 counties with no FTE speech language pathologists and another 23 counties with less than 1.00 FTE speech language pathologist (Appendix E, Table E-1).

National Rankings for Speech Language Pathologists

According to figures from the American Speech-Language-Hearing Association for July 2002, Kansas ranked eleventh among states (and the District of Columbia) for the fewest number of persons per speech language pathologist, at 2,459. Other states ranged from 2,053 persons per speech language pathologist in New Mexico to 5,414 in Nevada (Appendix F, Table F-1).

Audiologists

Qualifications for licensure. *Speech-language pathologists or audiologists shall meet the following qualifications for licensure under this act:*

- (a) Possession of at least a master's degree or equivalent in speech-language pathology or audiology from an educational institution with standards consistent with those of the state universities of Kansas approved by the secretary pursuant to rules and regulations;*
- (b) Completion of supervised clinical practicum experiences from an educational institution or its cooperating programs the content of which shall be consistent with the standards of the state universities of Kansas and delineated in the rules and regulations;*
- (c) Completion of a postgraduate professional experience pursuant to rules and regulations; and*
- (d) Passage of an examination in speech-language pathology or audiology pursuant to rules and regulations (KSA 65-6505).*

Licenses for audiologists expire biennially on October 31, with approximately half of the professionals receiving license renewal forms each year. The following demographic information is based upon the 143 completed questionnaires received from the 172 audiologists who renewed their licenses in 2000 and 2001.

Audiologists by Age and Gender

All audiologists above the age of 54 were male, while all audiologists under the age of 35 were female. In the 45-54 age group, over 60 percent (61.0%) were female, and in the 35-44 age group, over 80 percent (80.6%) were female (Figure 6 and Table 3).

Figure 6. Audiologists by Age Group by Gender

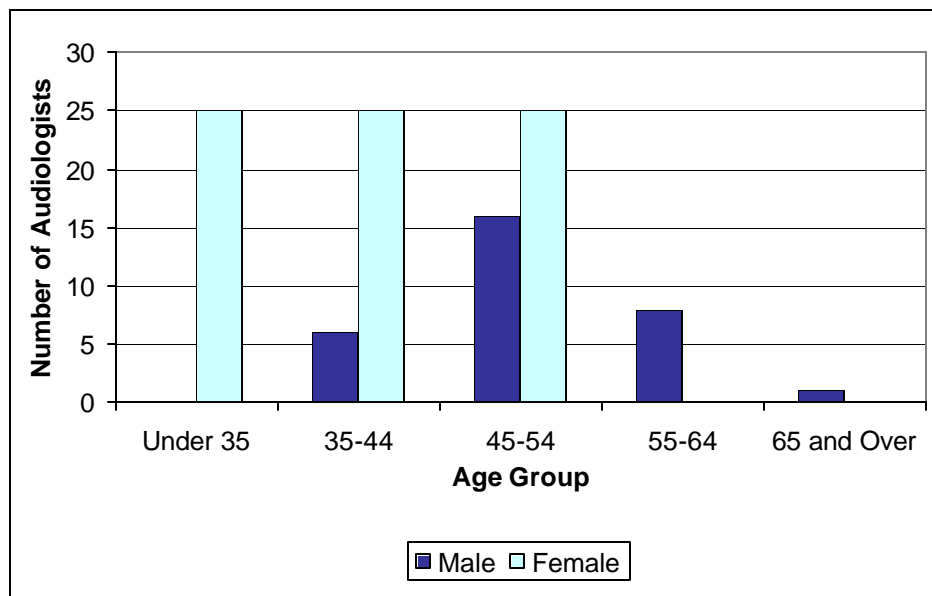


Table 3. Audiologists by Age Group by Gender

Age Group	Males		Females		Gender Not Stated	Total
	Number	Percent	Number	Percent		
Under 35	0	0.0	25	100.0	9	34
35 – 44	6	19.4	25	80.6	11	42
45 – 54	16	39.0	25	61.0	3	44
55 – 64	8	100.0	0	0.0	7	15
65 and Over	1	100.0	0	0.0	1	2
Age Not Stated	1	-	5	-	0	6
Total	32	28.6	80	71.4	31	143

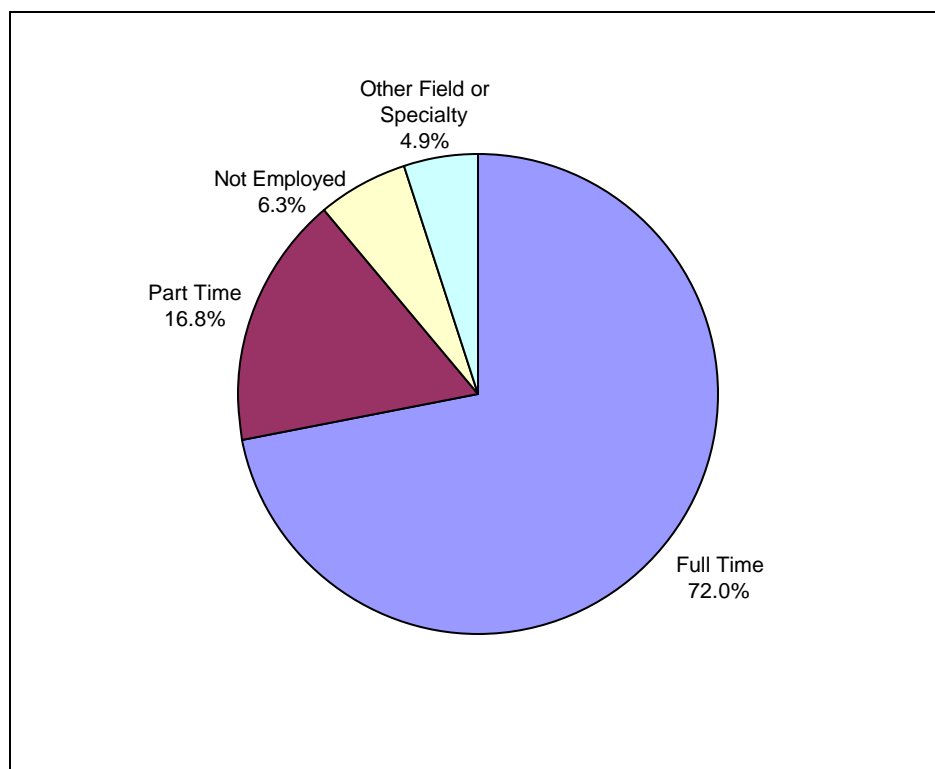
Audiologists by Education

The majority of audiologists (81.6%) listed a master's degree as the highest level of education achieved, which is to be expected, since licensure as an audiologist requires the possession of "at least a master's degree or equivalent." An additional 14.9 percent listed a Ph.D. as the highest level of education achieved.

Audiologists by Employment Status

Most audiologists (72.0%) were employed full time in their licensed profession. There were 16.8 percent who indicated that they were employed part time as audiologists, 6.3 percent who were unemployed and 4.9 percent employed in another field or specialty (Figure 7).

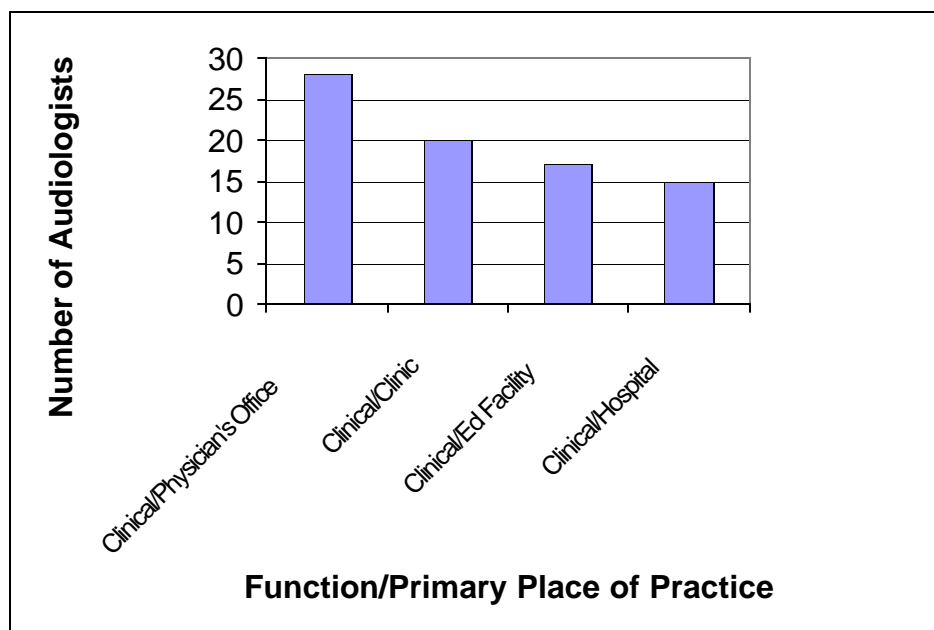
Figure 7. Employment Status for Audiologists



Audiologists by Function and Primary Place of Practice

The largest number of audiologists who indicated function and primary place of practice were doing clinical work at a physician's office, followed by doing clinical work at a clinic, doing clinical work at an educational facility and doing clinical work at a hospital (Figure 8 and Table 4).

**Figure 8. Audiologists
By Major Function and Primary Place of Practice**



**Table 4. Audiologists
By Function by Primary Place of Practice ***

Primary Place of Practice	Function				
	Consultant	Clinical	Management	Educator	Other
Residential Care Home	0	1	0	0	0
Hospital	0	15	0	0	0
Governmental Agency	0	7	0	4	0
Physician's Office	1	28	0	0	1
Clinic	0	20	0	0	0
Outpatient Rehab Center	0	1	0	0	0
Private Industry	4	6	1	0	1
Educational Facility	2	17	3	7	2

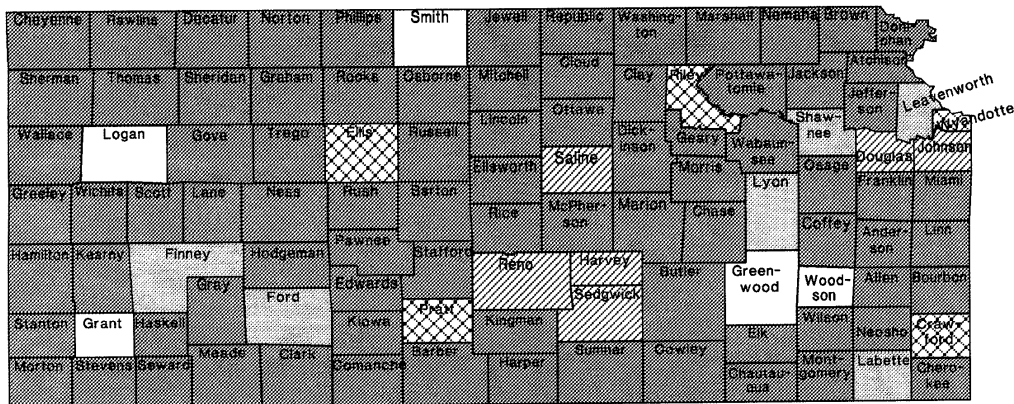
* Primary place of practice was not stated for 17 audiologists

Function was not stated for 22 audiologists

Audiologists by First Kansas County of Practice

Counties with the fewest persons per audiologist included Logan (2,901), Woodson (3,644), Smith (4,329), Greenwood (7,577), and Grant (7,720). There were 83 counties with no audiologists and another 10 counties with only one audiologist (Figure 9 and Appendix B, Table B-2).

Figure 9. Persons per Audiologist
By First Kansas County of Practice
Kansas, 2001



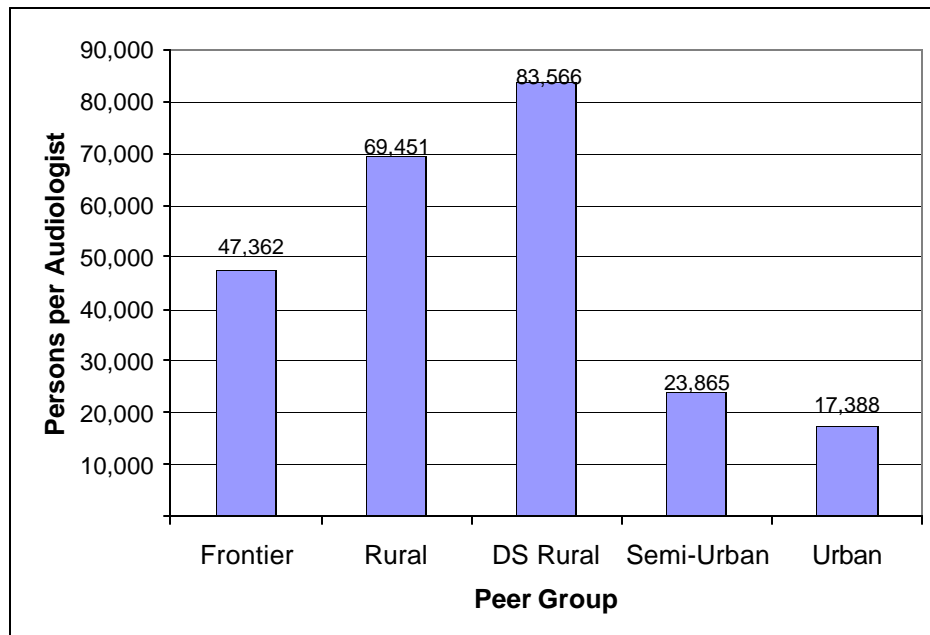
For Kansas as a whole,
there were 18,273 persons
per audiologist.

LEGEND	
	Less than 9,000
	9,000 - 14,999
	15,000 - 20,999
	21,000 and Over
	No Audiologists

Audiologists by Peer Groups of Counties

The number of persons per audiologist increased from 47,362 in frontier counties to 83,566 in densely-settled rural counties, then declined sharply to 23,865 in semi-urban counties and 17,388 in urban counties (Figure 10) (for the definition of *peer groups of counties*, see Appendix D).

Figure 10. Persons per Audiologist by Peer Group of Counties



Audiologists by Full Time Equivalents

Counties with the fewest persons per full time equivalent (FTE) audiologist included Logan (2,901), Woodson (4,672), Grant (7,720), Riley (12,887), and Crawford (14,451). There were 80 counties with no FTE audiologists and another 10 counties with less than 1.00 FTE audiologist (Appendix E, Table E-2).

National Rankings for Audiologists

According to figures from the American Speech-Language-Hearing Association for July 2002, Kansas ranked sixteenth among states (and the District of Columbia) for the fewest number of persons per audiologist, at 19,960. Other states ranged from 14,205 persons per audiologist in Colorado to 53,202 in Montana (Appendix F, Table F-2).

Dietitians

Requirements for licensure; licenses issued for two years. (a) *No person shall be granted a license as a dietitian unless such person has:*

- (1) Filed an application and paid the required application fee;*
- (2) Received a baccalaureate or post-baccalaureate degree with a major course of study in human nutrition, food and nutrition, dietetics or food service management approved by the secretary as meeting the standards for approval of such course of study under this act;*
- (3) Completed a planned, continuous program of dietetic experience approved by the secretary of not less than 900 clock hours under the supervision of a licensed dietitian; and*
- (4) Passed an examination approved by the secretary (KSA 65-5906).*

Licenses for dietitians expire biennially on the last day of February, with approximately half of the professionals receiving license renewal forms each year. The following demographic information is based upon the 640 completed questionnaires received from the 761 dietitians who renewed their licenses in 2000 and 2001.

Dietitians by Age and Gender

Over ninety-five percent of dietitians overall (98.3%) and within each age group were female. The highest percentage of dietitians was in the 45-54 age group (35.2%), with over four-fifths (87.2%) being under age 55 (Figure 11 and Table 5).

Figure 11. Dietitians by Age Group by Gender

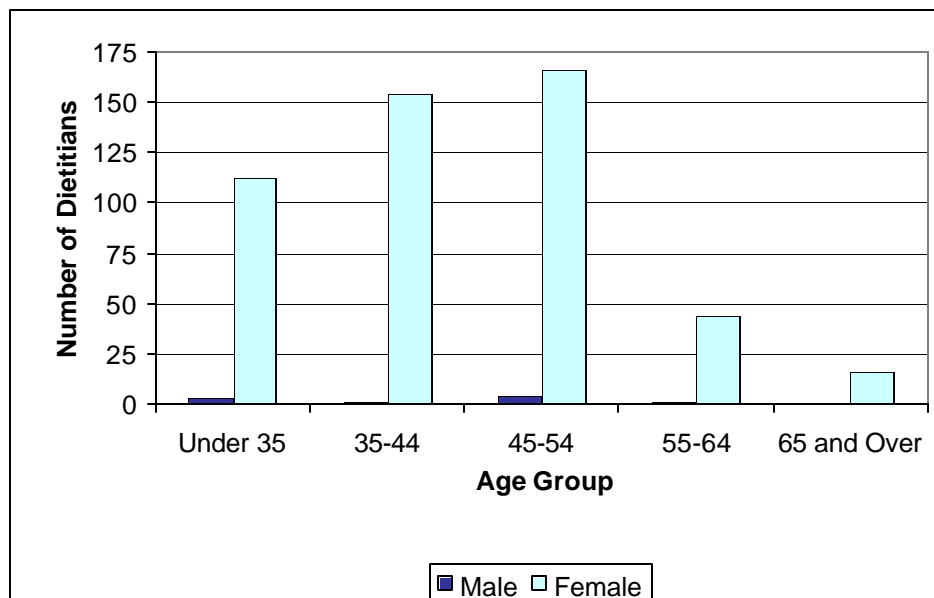


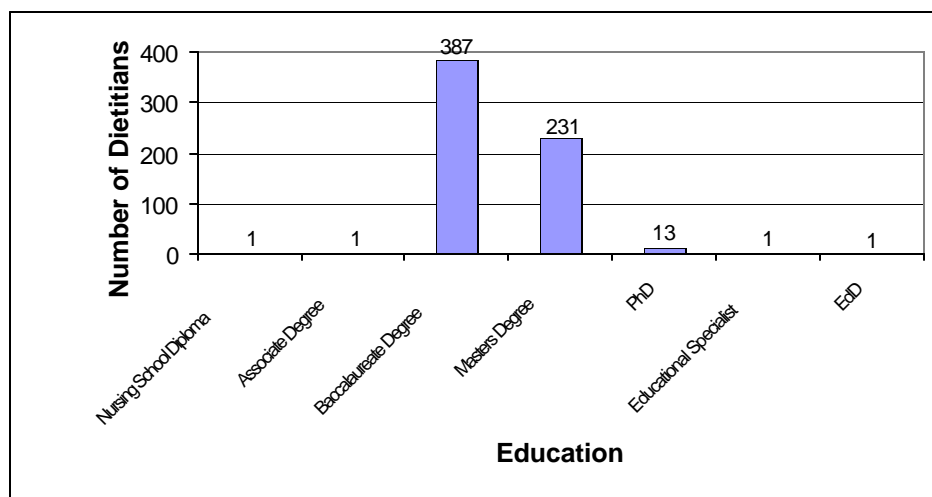
Table 5. Dietitians by Age Group by Gender

Age Group	Males		Females		Gender Not Stated	Total
	Number	Percent	Number	Percent		
Under 35	3	2.6	112	97.4	17	132
35 – 44	1	0.6	154	99.4	33	188
45 – 54	4	2.4	166	97.6	47	217
55 – 64	1	2.2	44	97.8	15	60
65 and Over	0	0.0	16	100.0	3	19
Age Not Stated	0	-	19	-	5	24
Total	9	1.7	511	98.3	120	640

Dietitians by Education

Over half (60.9%) of the dietitians returning questionnaires listed a baccalaureate degree as the highest degree held. An additional 36.4 percent held a master's degree (Figure 12).

Figure 12. Dietitians by Education

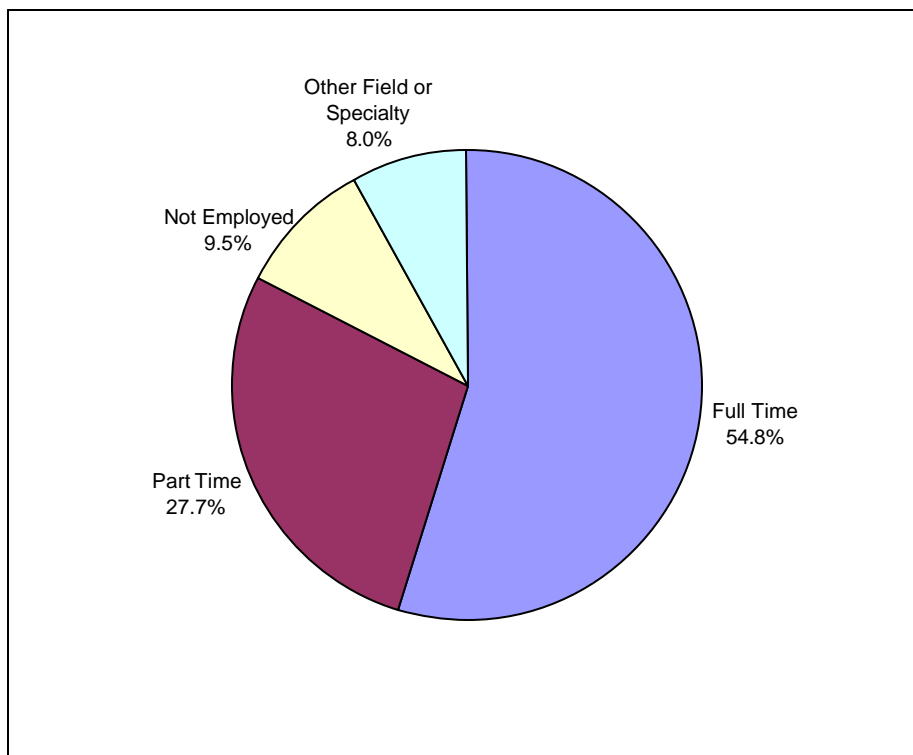


Level of education not listed for 5 dietitians.

Dietitians by Employment Status

Most dietitians (54.8%) were employed full time in their licensed profession. There were 27.7 percent who indicated that they were employed part time as dietitians, 9.5 percent who were unemployed and 8.0 percent employed in another field or specialty (Figure 13).

Figure 13. Employment Status for Dietitians



Dietitians by Function and Primary Place of Practice

The largest number of dietitians who indicated function and primary place of practice were doing clinical work at a hospital. Other, less prevalent practices included management at a hospital, consultant at a residential care home and management at a governmental agency (Figure 14 and Table 6).

Figure 14. Dietitians
By Major Function and Primary Place of Practice

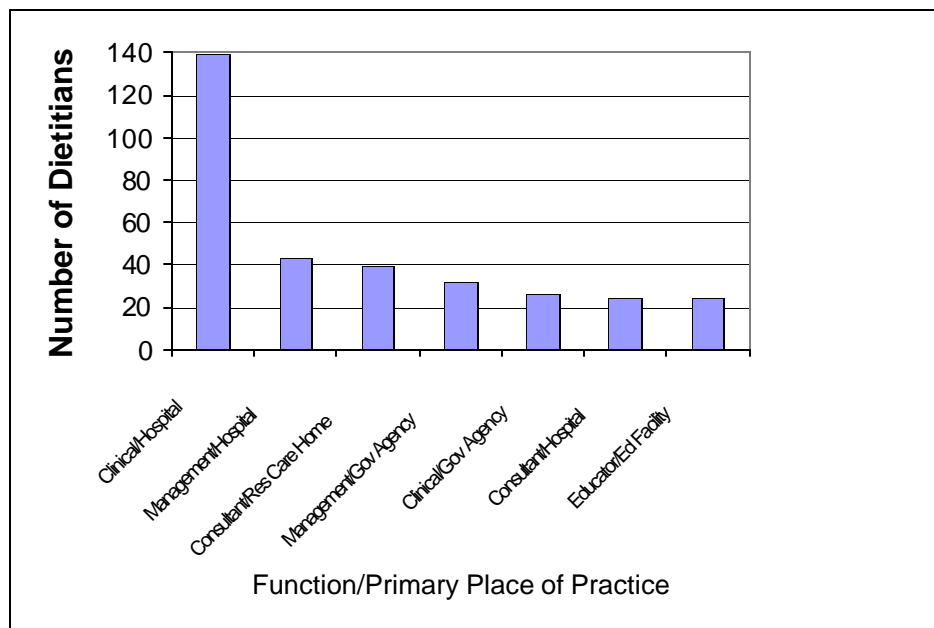


Table 6. Dietitians
By Function by Primary Place of Practice *

Primary Place of Practice	Function				
	Consultant	Clinical	Management	Educator	Other
Residential Care Home	39	16	5	0	1
Hospital	24	139	43	15	6
Governmental Agency	14	26	32	19	6
Community Agency	1	0	6	3	0
Home Health Agency	1	0	1	0	0
Physician's Office	4	4	1	2	1
Clinic	2	19	0	1	0
Outpatient Rehab Center	0	0	1	0	0
Private Industry	10	7	13	2	6
Educational Facility	2	1	13	24	0

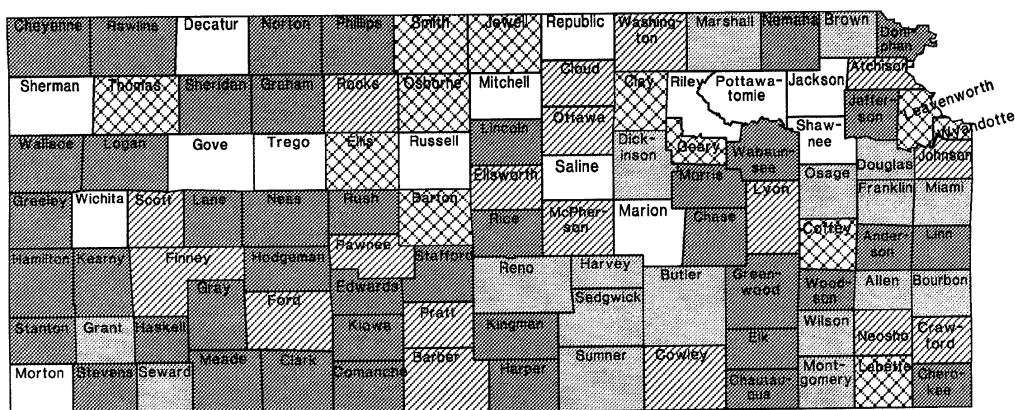
* Primary place of practice was not stated for 113 dietitians.

Function was not stated for 116 dietitians.

Dietitians by First Kansas County of Practice

Counties with the fewest persons per dietitian included Jackson (1,042), Decatur (1,656), Riley (1,714), Mitchell (2,147), and Wichita (2,512). There were 42 counties with no dietitians and another 22 counties with only one dietitian (Figure 15 and Appendix B, Table B-3).

Figure 15. Persons per Dietitian
By First Kansas County of Practice
Kansas, 2001



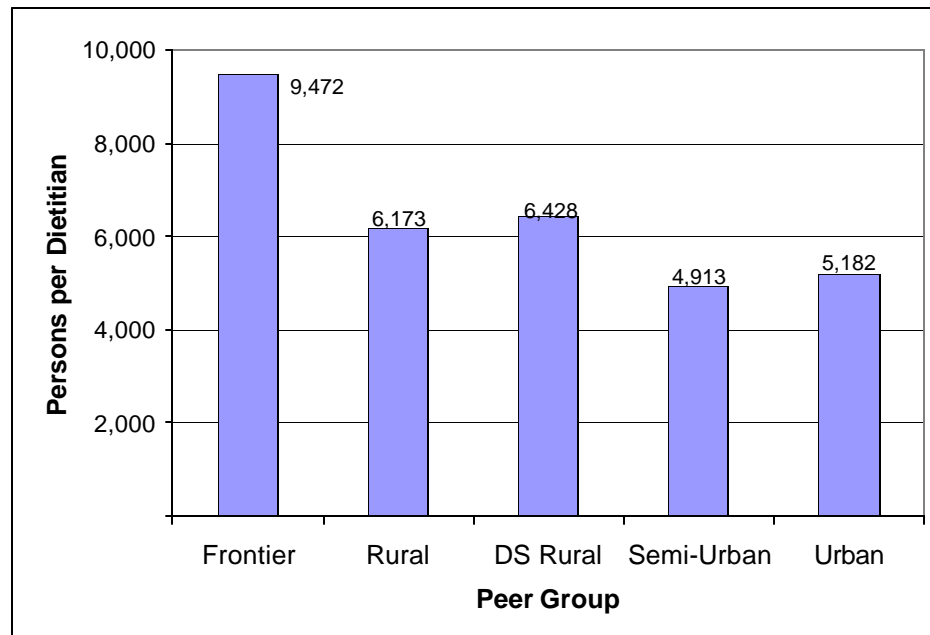
For Kansas as a whole,
there were 4,083 persons
per dietitian.

LEGEND	
	Less than 3,500
	3,500 - 4,499
	4,500 - 6,499
	6,500 and Over
	No Dietitians

Dietitians by Peer Groups of Counties

The number of persons per dietitian decreased from 9,472 in frontier counties to 4,913 in semi-urban counties and 5,182 in urban counties (Figure 16) (for the definition of *peer groups of counties*, see Appendix D).

Figure 16. Persons per Dietitian by Peer Group of Counties



Dietitians by Full Time Equivalents

Counties with the fewest persons per full time equivalent (FTE) dietitian included Riley (1,952), Wichita (2,512), Gove (2,956), Shawnee (3,654), and Pottawatomie (3,730). There were 36 counties with no FTE dietitians and another 21 counties with less than 1.00 FTE dietitian (Appendix E, Table E-3).

Adult Care Home Administrators

Qualification for Licensure. Each candidate for initial licensure as an adult care home administrator shall meet the following qualifications:

- (1) Each candidate shall hold a baccalaureate or higher degree from an accredited college or university.*
- (2) Each candidate shall have successfully completed a long-term care administration practicum that is conducted by an accredited college or university, or an equivalent program, as an academic training program and that meets the following requirements:*
 - (A) Consists of at least 480 clock-hours;*
 - (B) Incorporates the “core of knowledge,” as defined in KAR 28-38-29;*
 - (C) Provides the training in either, or a combination of, a Kansas-licensed adult care home or long-term care unit of a Kansas-licensed hospital, excluding assisted-living and residential health care facilities;*
 - (D) Designates a preceptor in the adult care home or in the hospital long-term care unit;*
 - (E) Assumes responsibility for coordinating with the preceptor the type of training and supervision to be provided during the practicum; and*
 - (F) Ensures that a preceptor meets the following:*
 - (i) Is responsible for the training, knowledge, and professional activities within the facility and for the development and refinement of the trainee as a prospective adult care home administrator;*
 - (ii) Does not supervise more than two trainees at a time;*
 - (iii) Is a full-time administrator of record or a licensed administrator who directly supervises the administrator of record; and*
 - (iv) Maintains direct supervision of the trainee in the facility in which the training is to be provided (KAR 28-38-19).*

Licenses for adult care home administrators expire biennially on June 30, with approximately half of the professionals receiving license renewal forms each year. The following demographic information is based upon the 460 completed questionnaires received from the 685 adult care home administrators who renewed their licenses in 2000 and 2001.

Adult Care Home Administrators by Age and Gender

Approximately sixty percent of adult care home administrators overall (62.9%) and within each age group were female. The highest percentage of adult care home administrators were in the 45-54 age group (37.3%) (Figure 17 and Table 7).

Figure 17. Adult Care Home Administrators by Age Group by Gender

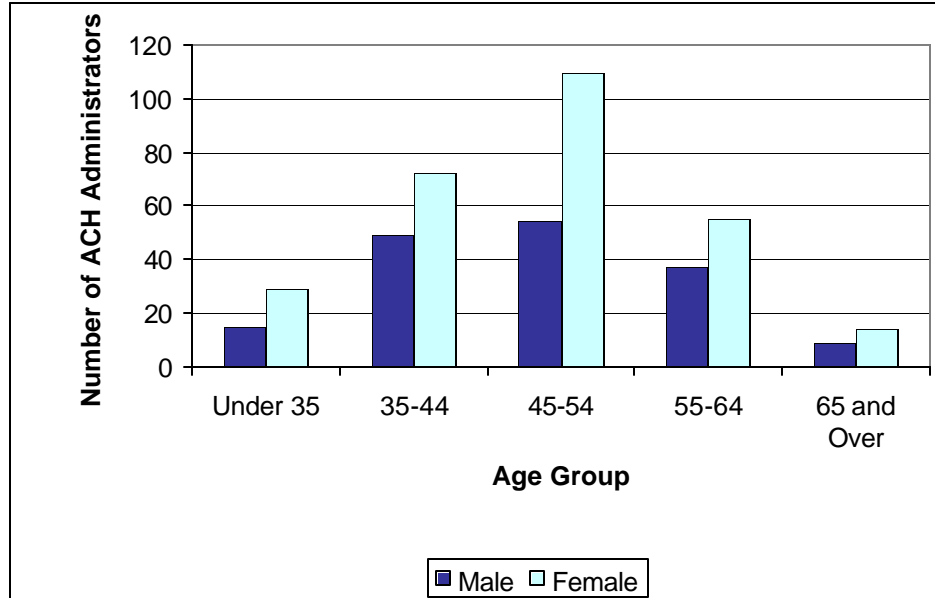


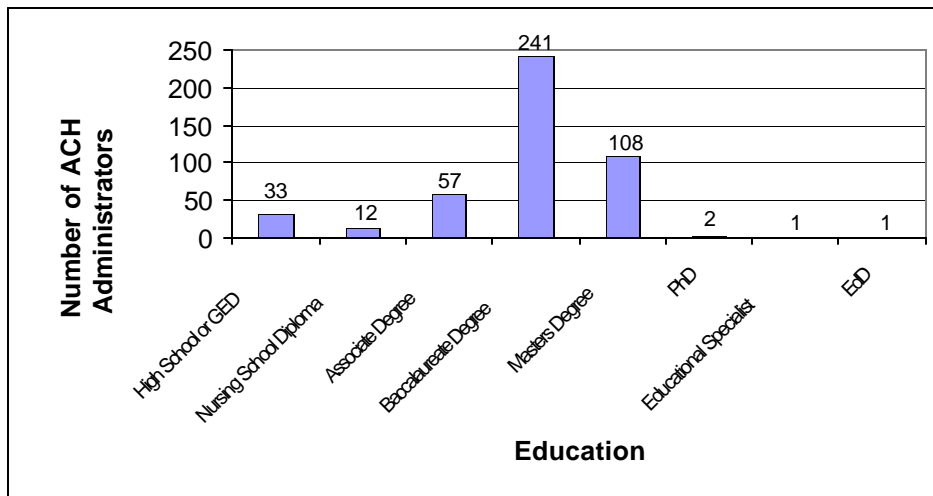
Table 7. Adult Care Home Administrators by Age Group by Gender

Age Group	Males		Females		Gender Not Stated	Total
	Number	Percent	Number	Percent		
Under 35	15	34.1	29	65.9	1	45
35 – 44	49	40.5	72	59.5	2	123
45 – 54	54	32.9	110	67.1	5	169
55 – 64	37	40.2	55	59.8	0	92
65 and Over	9	39.1	14	60.9	1	24
Age Not Stated	3	-	3	-	1	7
Total	167	37.1	283	62.9	10	460

Adult Care Home Administrators by Education

Over half (53.0%) of the adult care home administrators returning questionnaires listed a baccalaureate degree as the highest degree held. An additional 23.7 percent held a master's degree (Figure 18).

Figure 18. Adult Care Home Administrators by Education

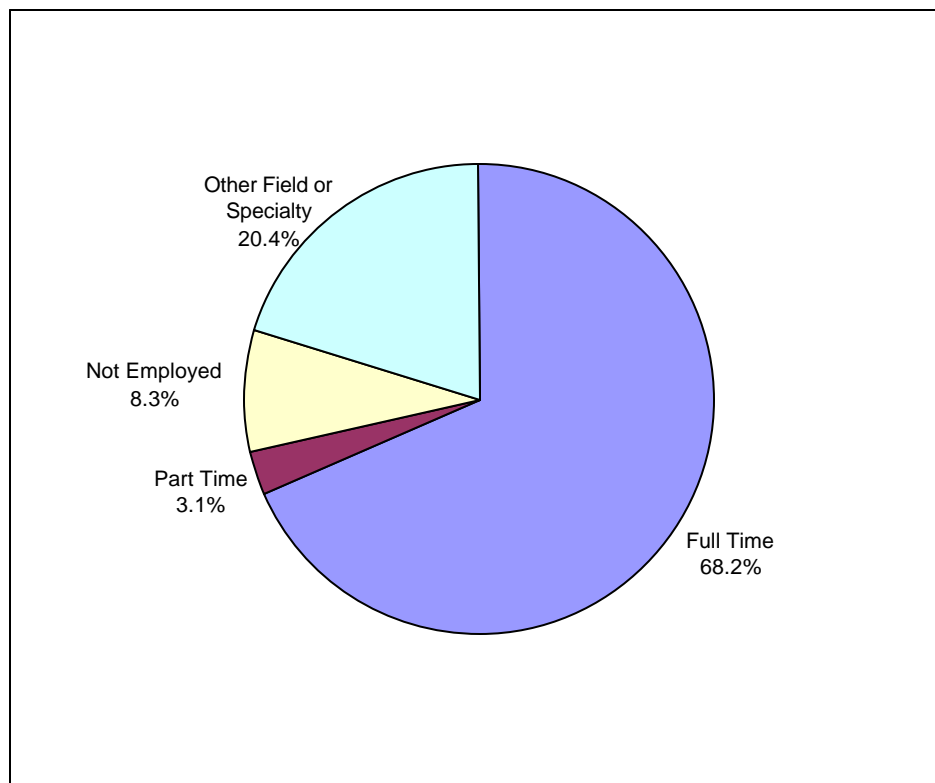


Level of education not listed for 5 adult care home administrators.

Adult Care Home Administrators by Employment Status

Most adult care home administrators (68.2%) were employed full time in their licensed profession. There were 3.1 percent who indicated that they were employed part time as adult care home administrators, 8.3 percent who were unemployed and 20.4 percent employed in another field or specialty (Figure 19).

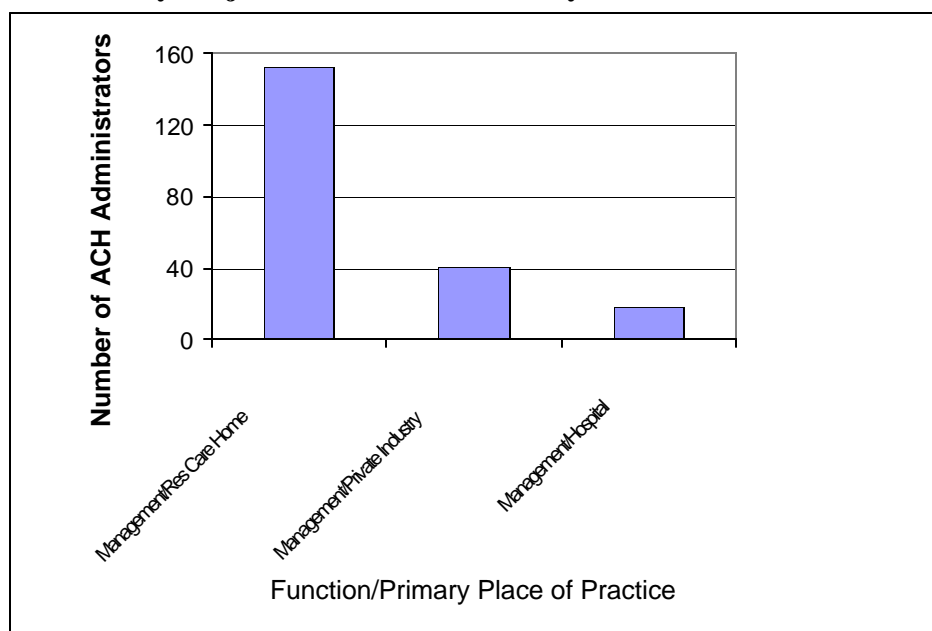
Figure 19. Employment Status for Adult Care Home Administrators



Adult Care Home Administrators by Function and Primary Place of Practice

The largest number of adult care home administrators who indicated function and primary place of practice were in management at a residential care home. Other, less prevalent practices included management in private industry and management at a hospital (Figure 20 and Table 8).

**Figure 20. Adult Care Home Administrators
By Major Function and Primary Place of Practice**



**Table 8. Adult Care Home Administrators
By Function by Primary Place of Practice ***

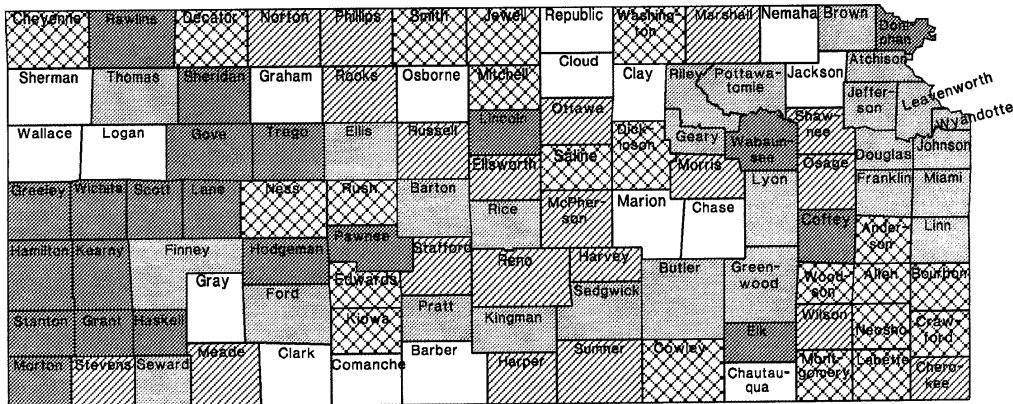
Primary Place of Practice	Function				
	Consultant	Clinical	Management	Educator	Other
Residential Care Home	8	11	152	0	5
Hospital	1	4	19	0	0
Governmental Agency	0	0	9	0	3
Community Agency	1	0	3	0	0
Home Health Agency	0	0	1	0	0
Physician's Office	0	0	1	0	0
Clinic	0	0	1	0	0
Private Industry	3	1	41	0	0
Educational Facility	0	0	1	1	0

* Primary place of practice was not stated for 192 adult care home administrators.
Function was not stated for 188 adult care home administrators.

Adult Care Home Administrators by First Kansas County of Practice

Counties with the fewest persons per adult care home administrator included Wallace (841), Chase (1,460), Nemaha (1,671), Barber (1,700), and Jackson (1,787). There were 19 counties with no adult care home administrators and another 34 counties with only one adult care home administrator (Figure 21 and Appendix B, Table B-4).

**Figure 21. Persons per Adult Care Home Administrator
By First Kansas County of Practice
Kansas, 2001**



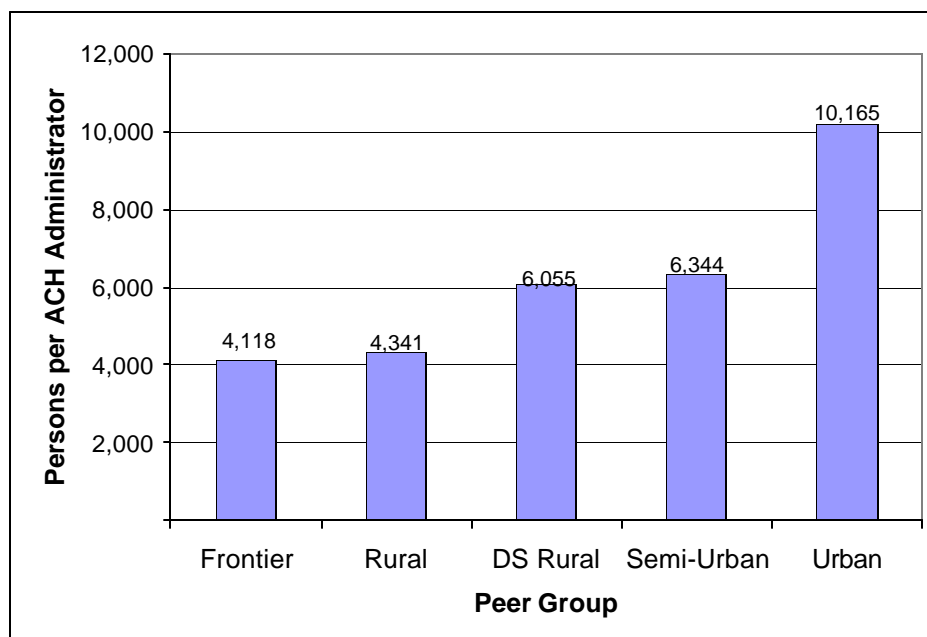
For Kansas as a whole, there were 5,680 persons per adult care home administrator.

LEGEND	
	Less than 3,000
	3,000 - 4,499
	4,500 - 6,999
	7,000 and Over
	No ACH Administrators

Adult Care Home Administrators by Peer Groups of Counties

The fewest number of persons per adult care home administrator was in frontier counties (4,118), with the number increasing as population density increases, to 10,165 persons per adult care home administrator in urban counties (Figure 22) (for the definition of *peer groups of counties*, see Appendix D).

Figure 22. Persons per Adult Care Home Administrator by Peer Group of Counties



Adult Care Home Administrators by Full Time Equivalents

Counties with the fewest persons per full time equivalent (FTE) adult care home administrator included Wallace (885), Chase (1,390), Barber (1,700), Comanche (1,719), and Republic (1,837). There were 26 counties with no FTE adult care home administrators and another one county with less than 1.00 FTE adult care home administrator (Appendix E, Table E-4).

Certified Nurse Aides

Nurse aide training program.

(a) Requirements. Unlicensed employees who provide direct individual care to residents shall:

(1) Successfully complete at least a 90-hour nurse aide course which has been approved by licensing agency; and

(2) Pass a state examination as prescribed in KAR 28-39-168.

(b) Certification. Each person shall be issued a nurse aide certificate by the licensing agency and shall be listed on a public registry upon successful completion of the requirements specified in subsection (a) (KAR 28-39-165).

The following demographic information is based upon information provided by Health Occupations Credentialing concerning the 32,150 nurse aides certified as of the fourth quarter of 2001.

Certified Nurse Aides by Age and Gender

The largest number of certified nurse aides were female, both overall and within each age group. However, there was an increase in the percentage of males from 5.9% in the 55-64 age group to 10.9% in the “under 35” age group. The majority of certified nurse aides (54.0%) were less than thirty-five years old (Figure 23 and Table 9).

Figure 23. Certified Nurse Aides by Age Group by Gender

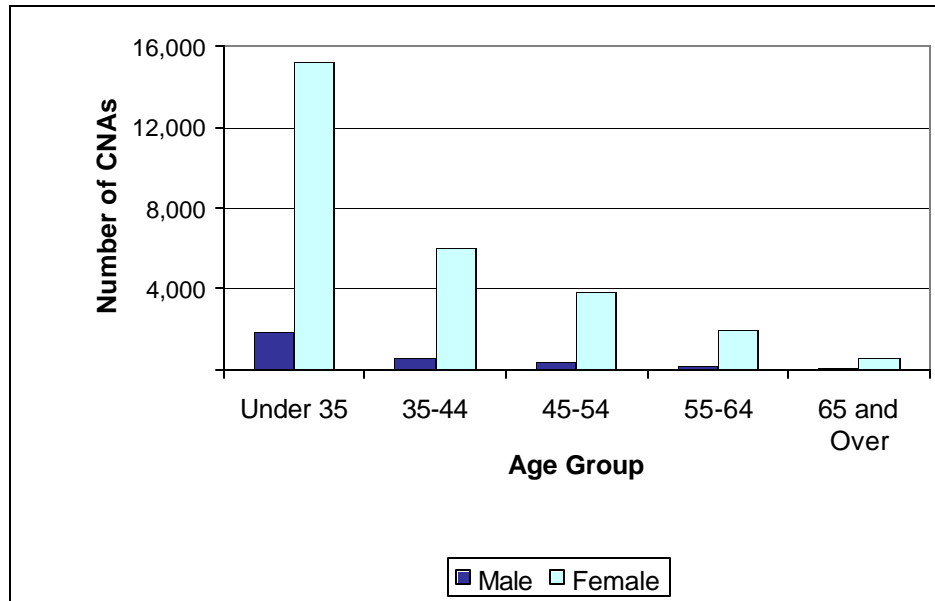


Table 9. Certified Nurse Aides by Age Group by Gender

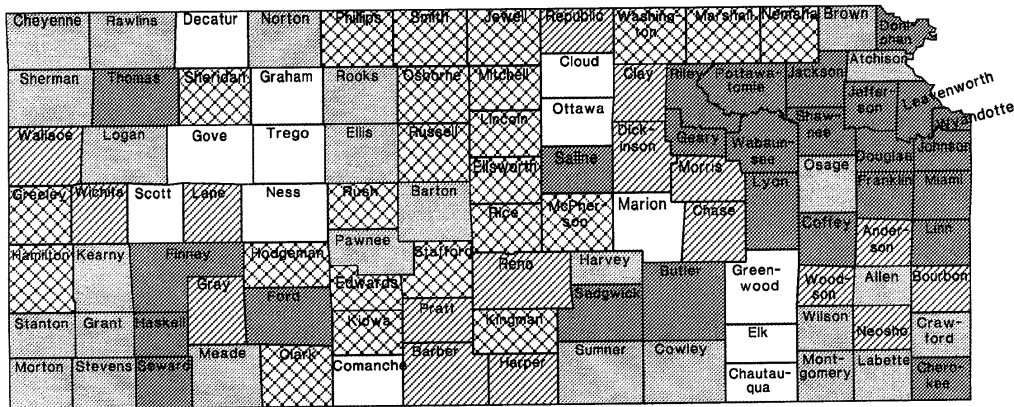
Age Group	Males		Females		Gender Not Stated	Total
	Number	Percent	Number	Percent		
Under 35	1,861	10.9	15,171	89.1	168	17,200
35 – 44	621	9.4	5,969	90.6	377	6,967
45 – 54	386	9.1	3,842	90.9	311	4,539
55 – 64	122	5.9	1,940	94.1	301	2,363
65 and Over	25	3.9	612	96.1	165	802
Age Not Stated	14	-	60	-	205	279
Total	3,029	9.9	27,594	90.1	1,527	32,150

Certified Nurse Aides by County of Residence

Counties with the fewest persons per certified nurse aide included Comanche (27), Chautauqua (30), Decatur (30), Ness (30), and Cloud (32). There were no counties without certified nurse aides in residence (Figure 24 and Appendix C, Table C-1).

Figure 24.

Persons per Certified Nurse Aide By County of Residence Kansas, 2001



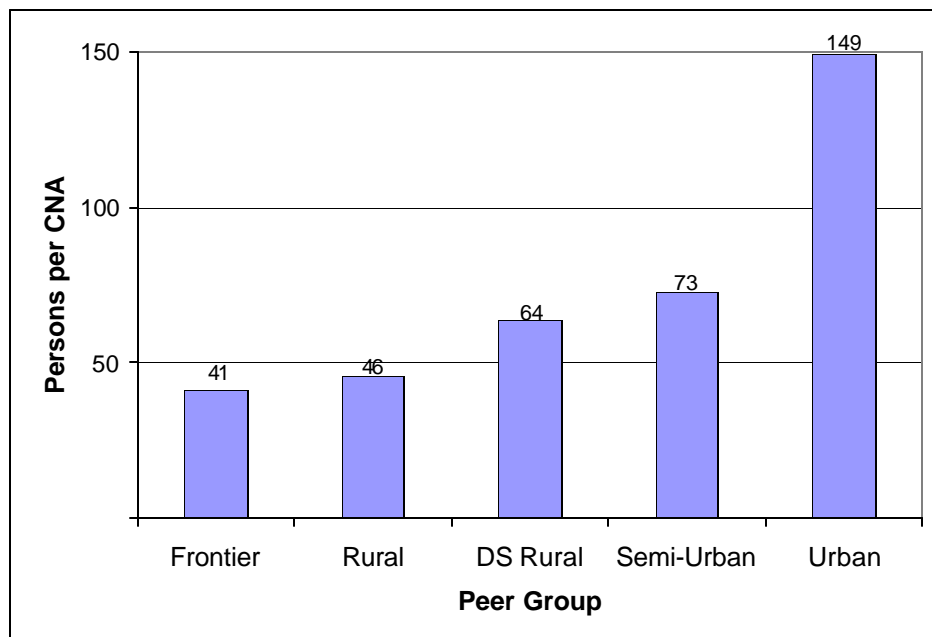
For Kansas as a whole,
there were 81 persons
per certified nurse aide.

LEGEND	
	Less than 35
	35 - 44
	45 - 49
	50 - 69
	70 and Over

Certified Nurse Aides by Peer Groups of Counties

The fewest number of persons per certified nurse aide was in frontier counties (41), with the number increasing as population density increases, to 149 persons per certified nurse aide in urban counties (Figure 25) (for the definition of *peer groups of counties*, see Appendix D).

Figure 25. Persons per Certified Nurse Aide by Peer Group of Counties



Certified Medication Aides

Medication aide. (a) Each medication aide shall be a nurse aide certified by the licensing agency or a qualified mental retardation professional as defined in 42 CFR 483.430(a) as published in the federal register, vol. 53, no. 107, effective June 3, 1988; and shall have successfully completed a course in medication administration as prescribed by the licensing agency (KAR 28-39-169).

Medication aide continuing education. (a) Each person who has a certificate of completion of medication administration training pursuant to K.A.R. 28-39-169 shall complete a program of 10 hours of continuing education as approved by the licensing agency every two years as a requirement for updating a certificate (KAR 28-39-170).

The following demographic information is based upon information provided by Health Occupations Credentialing concerning the 5,796 medication aides certified as of the fourth quarter of 2001.

Certified Medication Aides by Age and Gender

The largest number of certified medication aides were female, both overall and within each age group. However, there was an increase in the percentage of males from 5.1% in the 55-64 age group to 8.8% in the “under 35” age group. The age group with the most certified nurse aides (40.5%) was the “under 35” age group (Figure 26 and Table 10).

Figure 26. Certified Medication Aides by Age Group by Gender

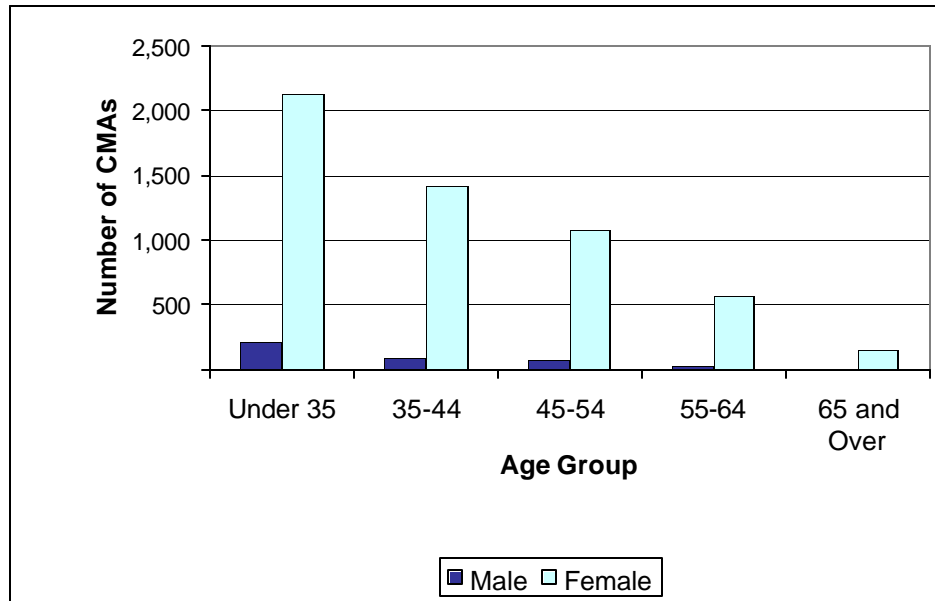


Table 10. Certified Medication Aides by Age Group by Gender

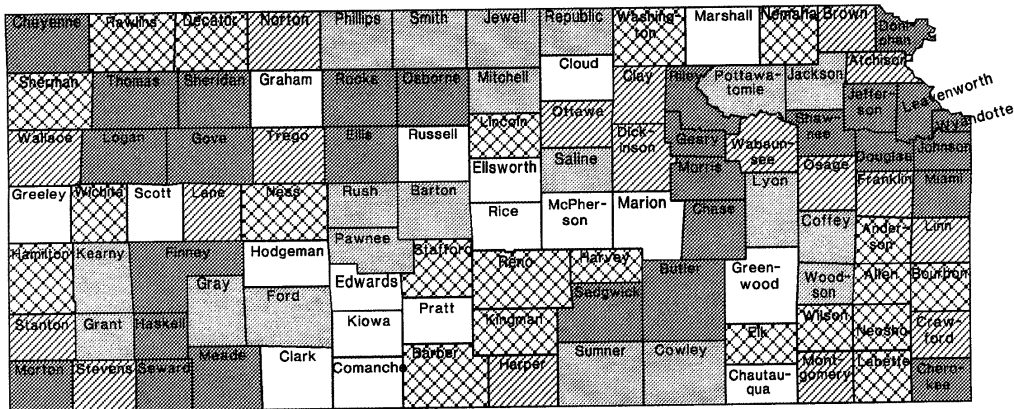
Age Group	Males		Females		Gender Not Stated	Total
	Number	Percent	Number	Percent		
Under 35	205	8.8	2,131	91.2	8	2,344
35 – 44	89	5.9	1,413	94.1	28	1,530
45 – 54	76	6.6	1,083	93.4	10	1,169
55 – 64	30	5.1	561	94.9	6	597
65 and Over	2	1.3	147	98.7	1	150
Age Not Stated	0	-	3	-	3	6
Total	402	7.0	5,338	93.0	56	5,796

Certified Medication Aides by County of Residence

Counties with the fewest persons per certified medication aide included Comanche (76), Greeley (123), Cloud (132), Graham (132), and McPherson (138). There were no counties without certified medication aides in residence (Figure 27 and Appendix C, Table C-2).

Figure 27.

Persons per Certified Medication Aide By County of Residence Kansas, 2001



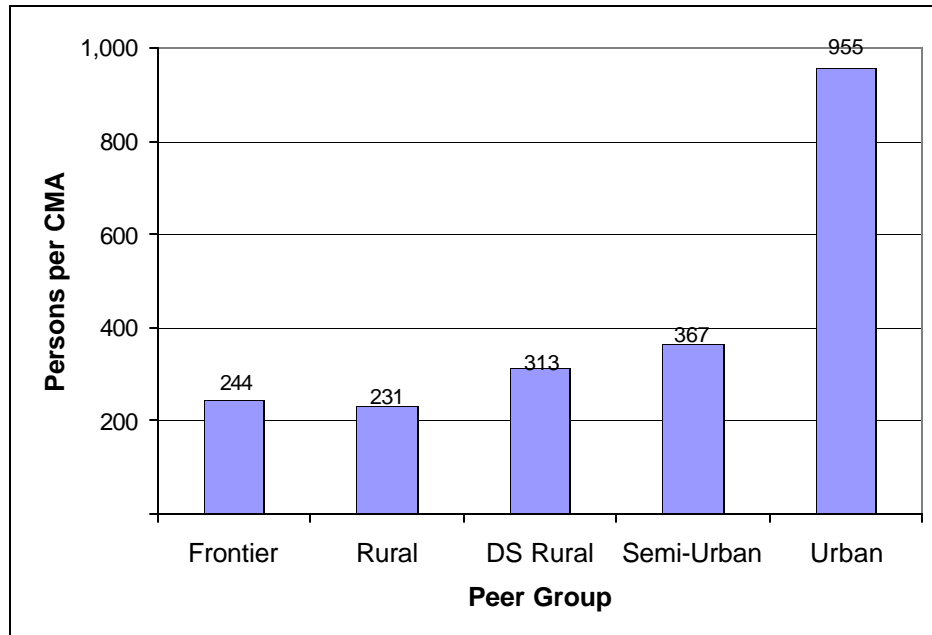
For Kansas as a whole,
there were 451 persons
per certified medication aide.

LEGEND	
	Less than 180
	180 - 249
	250 - 299
	300 - 399
	400 and Over

Certified Medication Aides by Peer Groups of Counties

The fewest number of persons per certified medication aide was in rural counties (231), with the number increasing as population density increases, to 955 persons per certified medication aide in urban counties (Figure 28) (for the definition of *peer groups of counties*, see Appendix D).

Figure 28. Persons per Certified Medication Aide by Peer Group of Counties



Certified Home Health Aides

Home health aide training program.

(a) Requirements. Each home health aide, whose assigned primary responsibilities are those functions provided in the curriculum and home health aide training required under this regulation shall:

- (1) Successfully complete at least a 90-hour home health aide course which has been approved by the licensing agency; or
- (2) Successfully complete at least a 90-hour nurse aide course and the corresponding written state examination pursuant to KAR 28-39-165 and a 20-hour home health aide modular course as approved by the licensing agency; and
- (3) Pass a state examination as prescribed in KAR 28-39-174.

(b) Certification. Each person who successfully completes the requirements specified in subsection (a) shall be issued a home health aide certificate by the licensing agency and shall be listed on a public registry (KAR 28-39-171).

The following demographic information is based upon information provided by Health Occupations Credentialing concerning the 5,263 home health aides certified as of the fourth quarter of 2001.

Certified Home Health Aides by Age and Gender

Over ninety percent of certified home health aides were female, both overall and within each age group. The age group with the most home health aides (32.1%) was the “under 35” age group (Figure 29 and Table 11).

Figure 29. Certified Home Health Aides by Age Group by Gender

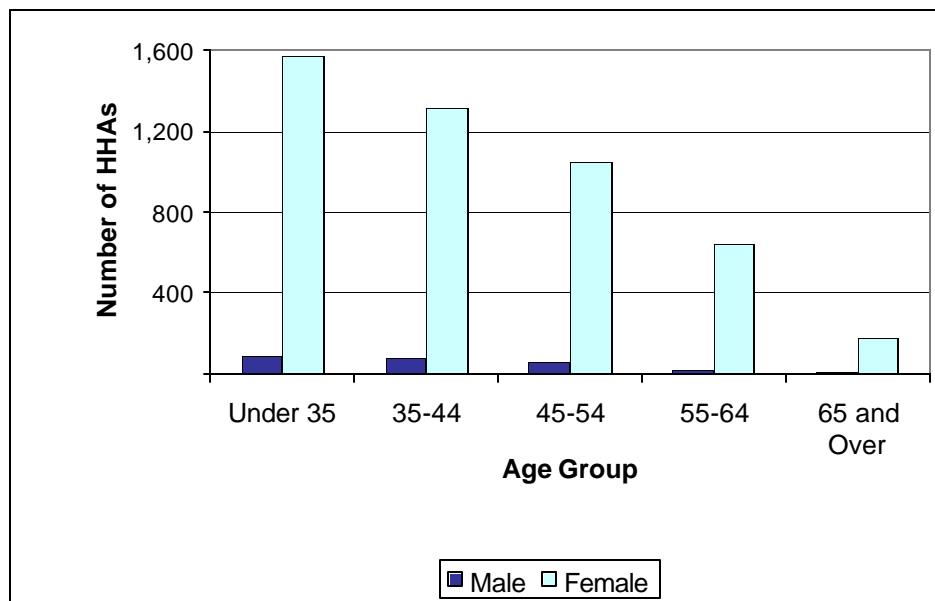


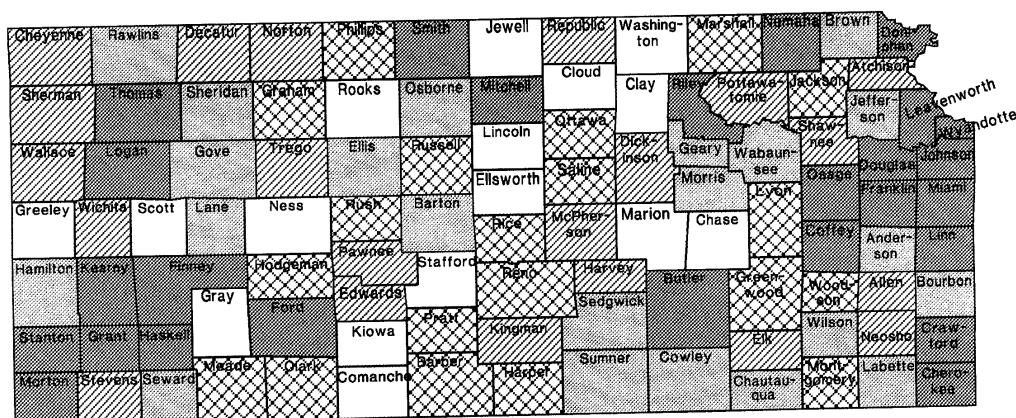
Table 11. Certified Home Health Aides by Age Group by Gender

Age Group	Males		Females		Gender Not Stated	Total
	Number	Percent	Number	Percent		
Under 35	89	5.3	1,576	94.7	12	1,677
35 – 44	76	5.5	1,316	94.5	52	1,444
45 – 54	64	5.7	1,050	94.3	55	1,169
55 – 64	20	3.0	640	97.0	59	719
65 and Over	7	3.9	174	96.1	36	217
Age Not Stated	3	-	10	-	24	37
Total	259	5.2	4,766	94.8	238	5,263

Certified Home Health Aides by County of Residence

Counties with the fewest persons per certified home health aide included Jewell (154), Ness (172), Scott (182), Lincoln (183), and Rooks (194). There were no counties without certified home health aides in residence (Figure 30 and Appendix C, Table C-3).

Figure 30. Persons per Certified Home Health Aide
By County of Residence
Kansas, 2001



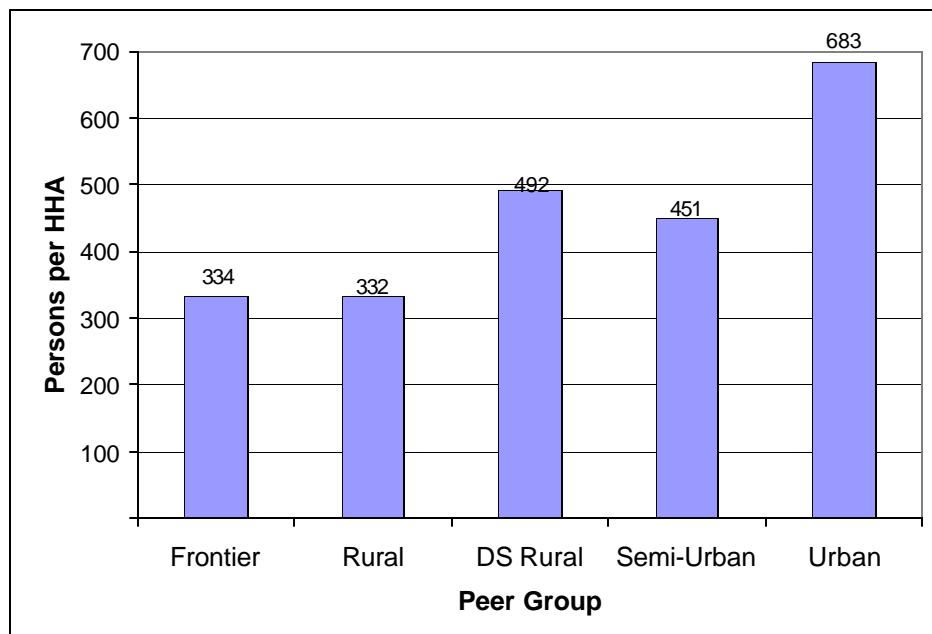
For Kansas as a whole,
there were 496 persons
per certified home health aide.

LEGEND	
	Less than 250
	250 - 324
	325 - 399
	400 - 549
	550 and Over

Certified Home Health Aides by Peer Groups of Counties

The fewest number of persons per certified home health aide was in rural counties (332), with the number increasing as population density increases, to 683 persons per certified home health aide in urban counties (Figure 31) (for the definition of *peer groups of counties*, see Appendix D).

Figure 31. Persons per Certified Home Health Aide by Peer Group of Counties



Appendix A

Kansas Department of Health and Environment Health Occupations Credentialing Information Inventory

Kansas Department of Health and Environment
Health Occupations Credentialing
Information Inventory - 2001

ID Number	License Issue	License Renew	License Expire
FOR AGENCY USE ONLY			

In order to obtain demographic information concerning health professionals licensed by Health Occupations Credentialing, Kansas Department of Health and Environment, all applicants are required to complete this inventory. Please print or type your responses, editing the preprinted information where necessary.

PLEASE INDICATE PROFESSION(S):

☐ Adult Home Care Administrator ☐ Dietitian ☐ Speech-Language Pathologist ☐ Audiologist

- Name
Last First M.I. Other
- Social Security Number Date of Birth
- Mailing Address
Street P.O. Box Apt. #
City County State Zip + 4
- Residence State Zip + 4
- Federal Provider ID Number (if applicable)
- Phone (work) (home)

Where applicable, place the letter that corresponds with your answer in the blank and provide additional information as requested.

- Race
a. Caucasian c. Native American or Alaskan American
b. African American d. Asian or Pacific Islander
e. Other
- Highest degree held:
a. High school diploma or GED e. Masters i. J.D.
b. Nursing school f. Ph.D. j. Other
c. Associate Degree g. Education specialist
d. Baccalaureate Degree h. Ed.D.
- Are you now, or have you ever been licensed in this profession in other states?
Y. Yes. If yes, list states and year granted
N. No
- Date initial license granted in Kansas:
- Are you now, or have you ever held another professional license(s) issued by Kansas or any other state or entity?
Y. Yes. If yes, list license(s), state(s), or entity
N. No
- Employment status
a. Employed full time in licensed profession
b. Employed part-time in licensed profession
c. Employed in other field (specify)
d. Employed in other profession (specify)
e. Not employed (Do not answer any further questions. Sign, date inventory and return.
- Are you of Spanish origin ?
Y Yes N No
- Sex
M Male F Female

5/15/2003

16. Specialty _____

17. Concentration _____

18. Level _____

19. _____ Primary a. Self-employed (own practice, partnership, consultant)

20. _____ Secondary b. Employee (Federal, state or local government; includes public schools, adult care homes, or hospital districts)

 c. Employee of for profit company

 d. Employee of private non-profit organization

 e. None

Facility/Setting/Institution/Agency

Address	City	County	State	Zip+4
---------	------	--------	-------	-------

Address	City	County	State	Zip+4
---------	------	--------	-------	-------

Tertiary

Use number from list below to indicate place of practice then indicate type of function in each place of practice. If you function in more than one position in the place of practice, indicate those functions in columns 1, 2, and 3, as needed; indicate hours allotted to that function each week. Total number of hours for all practice locations should not exceed the number of hours in an average work week.

<u>Place of Practice</u>			<u>Type of Function</u>
1. Residential Care Home	5. Home Health Agency	11. Assisted Living	1. Consult
2. Hospital	6. Physician's Office	12. Adult Care Home	2. Clinical
3. Government Agency	7. Clinic	13. Other _____	3. Management
Federal, State, County, City	8. Outpatient Rehab Ctr.	_____	4. Educator
4. Community Agency	9. Private Industry	_____	5. Other
	10. Educational Facility		

Rank of Practice	Place of Practice	% of time	1. Type of Function	Estimate hours per week	2. Type of Function	Estimate hours per week	3. Type of Function	Estimate hours per week
Primary	0	0	0	0	0	0	0	0
Secondary	0	0	0	0	0	0	0	0
Tertiary	0	0	0	0	0	0	0	0
Other	0	0	0	0	0	0	0	0

Appendix B

Persons per Professional
By First Kansas County of Practice

Table B-1: Persons per Speech Language Pathologist (SLP) by First Kansas County of Practice, and Rank of County -- Kansas, 2001

First KS County of Practice	* Adjusted Population	No of SLPs	Persons per SLP	Rank	First KS County of Practice	Adjusted Population	No of SLPs	Persons per SLP	Rank
Allen	13,840	9	1,538	10	Linn	9,552	0		
Anderson	8,061	1	8,061	78	Logan	2,901	5	580	2
Atchison	15,639	6	2,607	31	Lyon	33,963	2	16,982	82
Barber	5,099	1	5,099	68	Marion	12,654	4	3,164	48
Barton	27,048	9	3,005	40	Marshall	10,532	3	3,511	53
Bourbon	15,047	2	7,524	76	McPherson	27,977	13	2,152	17
Brown	10,429	6	1,738	14	Meade	4,532	1	4,532	63
Butler	58,159	16	3,635	57	Miami	28,022	10	2,802	36
Chase	2,919	0			Mitchell	6,440	4	1,610	12
Chautauqua	4,119	1	4,119	60	Montgomery	34,638	10	3,464	52
Cherokee	22,002	4	5,501	70	Morris	6,036	1	6,036	73
Cheyenne	3,060	0			Morton	3,329	0		
Clark	2,325	1	2,325	22	Nemaha	10,027	4	2,507	28
Clay	8,606	5	1,721	13	Neosho	16,287	1	16,287	81
Cloud	9,341	3	3,114	45	Ness	3,263	0		
Coffey	8,645	1	8,645	80	Norton	5,065	1	5,065	67
Comanche	1,891	0			Osage	16,667	3	5,556	72
Cowley	34,139	15	2,276	19	Osborne	4,228	1	4,228	61
Crawford	36,127	10	3,613	56	Ottawa	5,998	0		
Decatur	3,312	1	3,312	50	Pawnee	6,106	4	1,527	9
Dickinson	18,820	3	6,273	74	Phillips	5,733	5	1,147	5
Doniphan	7,909	2	3,955	59	Pottawatomie	18,052	6	3,009	41
Douglas	91,287	40	2,282	20	Pratt	9,222	5	1,844	15
Edwards	3,266	0			Rawlins	2,862	1	2,862	37
Elk	3,104	1	3,104	44	Reno	61,011	17	3,589	55
Ellis	25,999	19	1,368	8	Republic	5,510	1	5,510	71
Ellsworth	5,666	0			Rice	9,723	4	2,431	25
Finney	39,516	8	4,940	66	Riley	51,420	25	2,057	16
Ford	31,535	6	5,256	69	Rooks	5,419	4	1,355	7
Franklin	24,347	9	2,705	34	Rush	3,401	0		
Geary	26,213	9	2,913	38	Russell	6,962	3	2,321	21
Gove	2,956	1	2,956	39	Saline	52,201	21	2,486	26
Graham	2,778	0			Scott	4,917	1	4,917	65
Grant	7,720	8	965	3	Sedgwick	449,201	179	2,510	29
Gray	5,803	5	1,161	6	Seward	22,021	7	3,146	46
Greeley	1,476	0			Shawnee	165,177	66	2,503	27
Greenwood	7,577	1	7,577	77	Sheridan	2,683	1	2,683	33
Hamilton	2,627	1	2,627	32	Sherman	6,398	4	1,600	11
Harper	6,172	2	3,086	43	Smith	4,329	1	4,329	62
Harvey	31,583	10	3,158	47	Stafford	4,676	2	2,338	23
Haskell	4,250	0			Stanton	2,352	0		
Hodgeman	2,117	0			Stevens	5,319	0		
Jackson	12,509	29	431	1	Sumner	25,344	8	3,168	49
Jefferson	18,348	4	4,587	64	Thomas	7,802	3	2,601	30
Jewell	3,548	1	3,548	54	Trego	3,090	0		
Johnson	459,925	207	2,222	18	Wabaunsee	6,731	1	6,731	75
Kearny	4,516	0			Wallace	1,681	0		
Kingman	8,317	1	8,317	79	Washington	6,122	0		
Kiowa	3,028	1	3,028	42	Wichita	2,512	0		
Labette	21,639	9	2,404	24	Wilson	9,999	0		
Lane	2,068	2	1,034	4	Woodson	3,644	1	3,644	58
Leavenworth	63,474	19	3,341	51	Wyandotte	155,873	57	2,735	35
Lincoln	3,471	0			Not Stated		302		
					KANSAS	2,612,976	1,281	2,040	

* Source: U.S. Census Bureau. Adjusted population equals total population minus the population living in group quarters.

Table B-2: Persons per Audiologist by First Kansas County of Practice, and Rank of County –Kansas, 2001

First KS County of Practice	* Adjusted Population	Number of Audiologists	Persons per Audiologist	Rank	First KS County of Practice	*Adjusted Population	Number of Audiologists	Persons per Audiologist	Rank
Allen	13,840	0	-	-	Linn	9,552	0	-	-
Anderson	8,061	0	-	-	Logan	2,901	1	2,901	1
Atchison	15,639	0	-	-	Lyon	33,963	1	33,963	21
Barber	5,099	0	-	-	Marion	12,654	0	-	-
Barton	27,048	0	-	-	Marshall	10,532	0	-	-
Bourbon	15,047	0	-	-	McPherson	27,977	0	-	-
Brown	10,429	0	-	-	Meade	4,532	0	-	-
Butler	58,159	0	-	-	Miami	28,022	0	-	-
Chase	2,919	0	-	-	Mitchell	6,440	0	-	-
Chautauqua	4,119	0	-	-	Montgomery	34,638	0	-	-
Cherokee	22,002	0	-	-	Morris	6,036	0	-	-
Cheyenne	3,060	0	-	-	Morton	3,329	0	-	-
Clark	2,325	0	-	-	Nemaha	10,027	0	-	-
Clay	8,606	0	-	-	Neosho	16,287	0	-	-
Cloud	9,341	0	-	-	Ness	3,263	0	-	-
Coffey	8,645	0	-	-	Norton	5,065	0	-	-
Comanche	1,891	0	-	-	Osage	16,667	0	-	-
Cowley	34,139	0	-	-	Osborne	4,228	0	-	-
Crawford	36,127	4	9,032	6	Ottawa	5,998	0	-	-
Decatur	3,312	0	-	-	Pawnee	6,106	0	-	-
Dickinson	18,820	0	-	-	Phillips	5,733	0	-	-
Doniphan	7,909	0	-	-	Pottawatomie	18,052	0	-	-
Douglas	91,287	6	15,215	11	Pratt	9,222	1	9,222	7
Edwards	3,266	0	-	-	Rawlins	2,862	0	-	-
Elk	3,104	0	-	-	Reno	61,011	3	20,337	15
Ellis	25,999	2	13,000	10	Republic	5,510	0	-	-
Ellsworth	5,666	0	-	-	Rice	9,723	0	-	-
Finney	39,516	1	39,516	22	Riley	51,420	5	10,284	8
Ford	31,535	1	31,535	20	Rooks	5,419	0	-	-
Franklin	24,347	0	-	-	Rush	3,401	0	-	-
Geary	26,213	0	-	-	Russell	6,962	0	-	-
Gove	2,956	0	-	-	Saline	52,201	3	17,400	14
Graham	2,778	0	-	-	Scott	4,917	0	-	-
Grant	7,720	1	7,720	5	Sedgwick	449,201	28	16,043	13
Gray	5,803	0	-	-	Seward	22,021	0	-	-
Greeley	1,476	0	-	-	Shawnee	165,177	7	23,597	19
Greenwood	7,577	1	7,577	4	Sheridan	2,683	0	-	-
Hamilton	2,627	0	-	-	Sherman	6,398	0	-	-
Harper	6,172	0	-	-	Smith	4,329	1	4,329	3
Harvey	31,583	2	15,792	12	Stafford	4,676	0	-	-
Haskell	4,250	0	-	-	Stanton	2,352	0	-	-
Hodgeman	2,117	0	-	-	Stevens	5,319	0	-	-
Jackson	12,509	0	-	-	Sumner	25,344	0	-	-
Jefferson	18,348	0	-	-	Thomas	7,802	0	-	-
Jewell	3,548	0	-	-	Trego	3,090	0	-	-
Johnson	459,925	22	20,906	16	Wabaunsee	6,731	0	-	-
Kearny	4,516	0	-	-	Wallace	1,681	0	-	-
Kingman	8,317	0	-	-	Washington	6,122	0	-	-
Kiowa	3,028	0	-	-	Wichita	2,512	0	-	-
Labette	21,639	1	21,639	18	Wilson	9,999	0	-	-
Lane	2,068	0	-	-	Woodson	3,644	1	3,644	2
Leavenworth	63,474	3	21,158	17	Wyandotte	155,873	13	11,990	9
Lincoln	3,471	0	-	-	Not Stated		35		
					KANSAS	2,612,976	143	18,273	

* Source: U.S. Census Bureau. Adjusted population equals total population minus the population living in group quarters.

Table B-3: Persons per Dietitian by First Kansas County of Practice, and Rank of County – Kansas, 2001

First KS County of Practice	* Adjusted Population	No of Dietitians	Persons per Dietitian	Rank	First KS County of Practice	*Adjusted Population	No of Dietitians	Persons per Dietitian	Rank
Allen	13,840	1	13,840	58	Linn	9,552	0	-	-
Anderson	8,061	0	-	-	Logan	2,901	0	-	-
Atchison	15,639	3	5,213	35	Lyon	33,963	6	5,661	40
Barber	5,099	1	5,099	34	Marion	12,654	4	3,164	12
Barton	27,048	7	3,864	19	Marshall	10,532	1	10,532	56
Bourbon	15,047	2	7,524	48	McPherson	27,977	6	4,663	29
Brown	10,429	1	10,429	55	Meade	4,532	0	-	-
Butler	58,159	3	19,386	61	Miami	28,022	4	7,006	47
Chase	2,919	0	-	-	Mitchell	6,440	3	2,147	4
Chautauqua	4,119	0	-	-	Montgomery	34,638	2	17,319	60
Cherokee	22,002	0	-	-	Morris	6,036	0	-	-
Cheyenne	3,060	0	-	-	Morton	3,329	1	3,329	14
Clark	2,325	0	-	-	Nemaha	10,027	0	-	-
Clay	8,606	2	4,303	23	Neosho	16,287	3	5,429	38
Cloud	9,341	2	4,671	30	Ness	3,263	0	-	-
Coffey	8,645	2	4,323	24	Norton	5,065	0	-	-
Comanche	1,891	0	-	-	Osage	16,667	1	16,667	59
Cowley	34,139	7	4,877	31	Osborne	4,228	1	4,228	21
Crawford	36,127	6	6,021	43	Ottawa	5,998	1	5,998	42
Decatur	3,312	2	1,656	2	Pawnee	6,106	1	6,106	44
Dickinson	18,820	2	9,410	52	Phillips	5,733	0	-	-
Doniphan	7,909	0	-	-	Pottawatomie	18,052	6	3,009	8
Douglas	91,287	14	6,521	46	Pratt	9,222	2	4,611	28
Edwards	3,266	0	-	-	Rawlins	2,862	0	-	-
Elk	3,104	0	-	-	Reno	61,011	6	10,169	54
Ellis	25,999	6	4,333	27	Republic	5,510	2	2,755	6
Ellsworth	5,666	1	5,666	41	Rice	9,723	0	-	-
Finney	39,516	7	5,645	39	Riley	51,420	30	1,714	3
Ford	31,535	6	5,256	36	Rooks	5,419	1	5,419	37
Franklin	24,347	2	12,174	57	Rush	3,401	0	-	-
Geary	26,213	7	3,745	18	Russell	6,962	2	3,481	15
Gove	2,956	1	2,956	7	Saline	52,201	17	3,071	10
Graham	2,778	0	-	-	Scott	4,917	1	4,917	32
Grant	7,720	1	7,720	50	Sedgwick	449,201	59	7,614	49
Gray	5,803	0	-	-	Seward	22,021	1	22,021	62
Greeley	1,476	0	-	-	Shawnee	165,177	54	3,059	9
Greenwood	7,577	0	-	-	Sheridan	2,683	0	-	-
Hamilton	2,627	0	-	-	Sherman	6,398	2	3,199	13
Harper	6,172	0	-	-	Smith	4,329	1	4,329	25
Harvey	31,583	4	7,896	51	Stafford	4,676	0	-	-
Haskell	4,250	0	-	-	Stanton	2,352	0	-	-
Hodgeman	2,117	0	-	-	Stevens	5,319	0	-	-
Jackson	12,509	12	1,042	1	Sumner	25,344	1	25,344	63
Jefferson	18,348	0	-	-	Thomas	7,802	2	3,901	20
Jewell	3,548	1	3,548	16	Trego	3,090	1	3,090	11
Johnson	459,925	92	4,999	33	Wabaunsee	6,731	0	-	-
Kearny	4,516	0	-	-	Wallace	1,681	0	-	-
Kingman	8,317	0	-	-	Washington	6,122	1	6,122	45
Kiowa	3,028	0	-	-	Wichita	2,512	1	2,512	5
Labette	21,639	6	3,607	17	Wilson	9,999	1	9,999	53
Lane	2,068	0	-	-	Woodson	3,644	0	-	-
Leavenworth	63,474	15	4,232	22	Wyandotte	155,873	36	4,330	26
Lincoln	3,471	0	-	-	Not Stated		163		
					KANSAS	2,612,976	640	4,083	

* Source: U.S. Census Bureau. Adjusted population equals total population minus the population living in group quarters.

Table B-4: Persons per Adult Care Home Administrator (ACH Admin.) by First Kansas County of Practice, and Rank of County -- Kansas, 2001

First KS County of Practice	* Adjusted Population	No of ACH Admins	Persons per ACH Admin.	Rank	First KS County of Practice	*Adjusted Population	Number of ACH Admins.	Persons per ACH Admin.	Rank
Allen	13,840	4	3,460	28	Linn	9,552	1	9,552	74
Anderson	8,061	2	4,031	36	Logan	2,901	1	2,901	16
Atchison	15,639	2	7,820	65	Lyon	33,963	4	8,491	68
Barber	5,099	3	1,700	4	Marion	12,654	5	2,531	13
Barton	27,048	3	9,016	70	Marshall	10,532	2	5,266	47
Bourbon	15,047	4	3,762	33	McPherson	27,977	6	4,663	42
Brown	10,429	1	10,429	76	Meade	4,532	1	4,532	41
Butler	58,159	8	7,270	61	Miami	28,022	4	7,006	60
Chase	2,919	2	1,460	2	Mitchell	6,440	2	3,220	22
Chautauqua	4,119	2	2,060	9	Montgomery	34,638	9	3,849	35
Cherokee	22,002	4	5,501	50	Morris	6,036	1	6,036	57
Cheyenne	3,060	1	3,060	19	Morton	3,329	0	-	-
Clark	2,325	1	2,325	12	Nemaha	10,027	6	1,671	3
Clay	8,606	3	2,869	15	Neosho	16,287	5	3,257	23
Cloud	9,341	5	1,868	7	Ness	3,263	1	3,263	24
Coffey	8,645	0	-	-	Norton	5,065	1	5,065	45
Comanche	1,891	1	1,891	8	Osage	16,667	3	5,556	52
Cowley	34,139	8	4,267	37	Osborne	4,228	2	2,114	10
Crawford	36,127	10	3,613	31	Ottawa	5,998	1	5,998	56
Decatur	3,312	1	3,312	26	Pawnee	6,106	0	-	-
Dickinson	18,820	5	3,764	34	Phillips	5,733	1	5,733	55
Doniphan	7,909	0	-	-	Pottawatomie	18,052	2	9,026	71
Douglas	91,287	10	9,129	72	Pratt	9,222	1	9,222	73
Edwards	3,266	1	3,266	25	Rawlins	2,862	0	-	-
Elk	3,104	0	-	-	Reno	61,011	11	5,546	51
Ellis	25,999	3	8,666	69	Republic	5,510	3	1,837	6
Ellsworth	5,666	1	5,666	53	Rice	9,723	1	9,723	75
Finney	39,516	2	19,758	84	Riley	51,420	7	7,346	62
Ford	31,535	4	7,884	66	Rooks	5,419	1	5,419	49
Franklin	24,347	2	12,174	81	Rush	3,401	1	3,401	27
Geary	26,213	1	26,213	85	Russell	6,962	1	6,962	59
Gove	2,956	0	-	-	Saline	52,201	12	4,350	39
Graham	2,778	1	2,778	14	Scott	4,917	0	-	-
Grant	7,720	0	-	-	Sedgwick	449,201	39	11,518	78
Gray	5,803	2	2,902	17	Seward	22,021	2	11,011	77
Greeley	1,476	0	-	-	Shawnee	165,177	29	5,696	54
Greenwood	7,577	1	7,577	63	Sheridan	2,683	0	-	-
Hamilton	2,627	0	-	-	Sherman	6,398	3	2,133	11
Harper	6,172	1	6,172	58	Smith	4,329	1	4,329	38
Harvey	31,583	7	4,512	40	Stafford	4,676	1	4,676	43
Haskell	4,250	0	-	-	Stanton	2,352	0	-	-
Hodgeman	2,117	0	-	-	Stevens	5,319	1	5,319	48
Jackson	12,509	7	1,787	5	Sumner	25,344	5	5,069	46
Jefferson	18,348	1	18,348	83	Thomas	7,802	1	7,802	64
Jewell	3,548	1	3,548	29	Trego	3,090	1	3,090	21
Johnson	459,925	39	11,793	79	Wabaunsee	6,731	0	-	-
Kearny	4,516	0	-	-	Wallace	1,681	2	841	1
Kingman	8,317	1	8,317	67	Washington	6,122	2	3,061	20
Kiowa	3,028	1	3,028	18	Wichita	2,512	0	-	-
Labette	21,639	6	3,607	30	Wilson	9,999	2	5,000	44
Lane	2,068	0	-	-	Woodson	3,644	1	3,644	32
Leavenworth	63,474	4	15,869	82	Wyandotte	155,873	13	11,990	80
Lincoln	3,471	0	-	-	Not Stated		95		
					KANSAS	2,612,976	460	5,680	

Source: U.S. Census Bureau. Adjusted population equals total population minus the population living in group quarters.

Appendix C

Persons per Professional By County of Residence

Table C-1: Persons per Certified Nurse Aide (CNA) by First Kansas County of Practice, and Rank of County – Kansas, 2001

First KS County of Practice	* Adjusted Population	Number of CNAs	Persons per CNA	Rank	First KS County of Practice	*Adjusted Population	Number of CNAs	Persons per CNA	Rank
Allen	13,840	268	52	57	Linn	9,552	131	73	86
Anderson	8,061	174	46	41	Logan	2,901	42	69	78
Atchison	15,639	274	57	67	Lyon	33,963	481	71	82
Barber	5,099	111	46	41	Marion	12,654	373	34	9
Barton	27,048	469	58	70	Marshall	10,532	240	44	34
Bourbon	15,047	305	49	50	McPherson	27,977	690	41	29
Brown	10,429	204	51	56	Meade	4,532	84	54	61
Butler	58,159	662	88	91	Miami	28,022	276	102	99
Chase	2,919	65	45	37	Mitchell	6,440	148	44	34
Chautauqua	4,119	137	30	2	Montgomery	34,638	649	53	58
Cherokee	22,002	231	95	93	Morris	6,036	125	48	46
Cheyenne	3,060	49	62	75	Morton	3,329	63	53	58
Clark	2,325	54	43	32	Nemaha	10,027	268	37	17
Clay	8,606	190	45	37	Neosho	16,287	332	49	50
Cloud	9,341	293	32	5	Ness	3,263	110	30	2
Coffey	8,645	120	72	83	Norton	5,065	85	60	73
Comanche	1,891	70	27	1	Osage	16,667	251	66	76
Cowley	34,139	617	55	64	Osborne	4,228	105	40	27
Crawford	36,127	597	61	74	Ottawa	5,998	178	34	9
Decatur	3,312	110	30	2	Pawnee	6,106	109	56	65
Dickinson	18,820	392	48	46	Phillips	5,733	129	44	34
Doniphan	7,909	80	99	96	Pottawatomie	18,052	249	72	83
Douglas	91,287	534	171	104	Pratt	9,222	207	45	37
Edwards	3,266	83	39	25	Rawlins	2,862	57	50	54
Elk	3,104	92	34	9	Reno	61,011	1,244	49	50
Ellis	25,999	438	59	72	Republic	5,510	115	48	46
Ellsworth	5,666	156	36	16	Rice	9,723	266	37	17
Finney	39,516	359	110	101	Riley	51,420	540	95	93
Ford	31,535	323	98	95	Rooks	5,419	102	53	58
Franklin	24,347	339	72	83	Rush	3,401	91	37	17
Geary	26,213	373	70	80	Russell	6,962	182	38	22
Gove	2,956	90	33	6	Saline	52,201	642	81	89
Graham	2,778	81	34	9	Scott	4,917	148	33	6
Grant	7,720	116	67	77	Sedgwick	449,201	3,664	123	102
Gray	5,803	122	48	46	Seward	22,021	213	103	100
Greeley	1,476	42	35	14	Shawnee	165,177	1,675	99	96
Greenwood	7,577	221	34	9	Sheridan	2,683	71	38	22
Hamilton	2,627	69	38	22	Sherman	6,398	112	57	67
Harper	6,172	136	45	37	Smith	4,329	105	41	29
Harvey	31,583	634	50	54	Stafford	4,676	121	39	25
Haskell	4,250	56	76	87	Stanton	2,352	34	69	78
Hodgeman	2,117	61	35	14	Stevens	5,319	95	56	65
Jackson	12,509	149	84	90	Sumner	25,344	441	57	67
Jefferson	18,348	184	100	98	Thomas	7,802	101	77	88
Jewell	3,548	96	37	17	Trego	3,090	93	33	6
Johnson	459,925	1,336	344	105	Wabaunsee	6,731	96	70	80
Kearny	4,516	84	54	61	Wallace	1,681	36	47	44
Kingman	8,317	193	43	32	Washington	6,122	152	40	27
Kiowa	3,028	72	42	31	Wichita	2,512	55	46	41
Labette	21,639	376	58	70	Wilson	9,999	184	54	61
Lane	2,068	44	47	44	Woodson	3,644	74	49	50
Leavenworth	63,474	472	134	103	Wyandotte	155,873	1,650	94	92
Lincoln	3,471	94	37	17	Not Stated		1,569		
					KANSAS	2,612,976	32,150	81	

Source: U.S. Census Bureau. Adjusted population equals total population minus the population living in group quarters.

Table C-2: Persons per Certified Medication Aide (CMA) by First Kansas County of Practice, and Rank of County – Kansas, 2001

First KS County of Practice	* Adjusted Population	Number of CMAs	Persons per CMA	Rank	First KS County of Practice	*Adjusted Population	Number of CMAs	Persons per CMA	Rank
Allen	13,840	68	204	27	Linn	9,552	32	299	57
Anderson	8,061	42	192	21	Logan	2,901	7	414	79
Atchison	15,639	55	284	52	Lyon	33,963	90	377	74
Barber	5,099	24	212	30	Marion	12,654	74	171	14
Barton	27,048	74	366	71	Marshall	10,532	62	170	13
Bourbon	15,047	63	239	38	McPherson	27,977	203	138	5
Brown	10,429	38	274	47	Meade	4,532	11	412	78
Butler	58,159	123	473	89	Miami	28,022	48	584	94
Chase	2,919	5	584	94	Mitchell	6,440	20	322	61
Chautauqua	4,119	23	179	17	Montgomery	34,638	130	266	44
Cherokee	22,002	51	431	82	Morris	6,036	14	431	82
Cheyenne	3,060	5	612	96	Morton	3,329	7	476	90
Clark	2,325	13	179	17	Nemaha	10,027	47	213	32
Clay	8,606	29	297	56	Neosho	16,287	77	212	30
Cloud	9,341	71	132	3	Ness	3,263	17	192	21
Coffey	8,645	24	360	70	Norton	5,065	18	281	50
Comanche	1,891	25	76	1	Osage	16,667	61	273	46
Cowley	34,139	106	322	61	Osborne	4,228	10	423	81
Crawford	36,127	137	264	43	Ottawa	5,998	24	250	40
Decatur	3,312	14	237	37	Pawnee	6,106	19	321	60
Dickinson	18,820	68	277	48	Phillips	5,733	19	302	58
Doniphan	7,909	18	439	84	Pottawatomie	18,052	49	368	73
Douglas	91,287	84	1,087	103	Pratt	9,222	62	149	8
Edwards	3,266	23	142	6	Rawlins	2,862	14	204	27
Elk	3,104	17	183	19	Reno	61,011	269	227	34
Ellis	25,999	59	441	85	Republic	5,510	15	367	72
Ellsworth	5,666	37	153	9	Rice	9,723	67	145	7
Finney	39,516	47	841	101	Riley	51,420	67	767	98
Ford	31,535	92	343	69	Rooks	5,419	11	493	92
Franklin	24,347	91	268	45	Rush	3,401	10	340	68
Geary	26,213	49	535	93	Russell	6,962	44	158	10
Gove	2,956	7	422	80	Saline	52,201	137	381	75
Graham	2,778	21	132	3	Scott	4,917	28	176	15
Grant	7,720	24	322	61	Sedgwick	449,201	586	767	98
Gray	5,803	18	322	61	Seward	22,021	33	667	97
Greeley	1,476	12	123	2	Shawnee	165,177	343	482	91
Greenwood	7,577	46	165	11	Sheridan	2,683	6	447	86
Hamilton	2,627	13	202	26	Sherman	6,398	28	229	35
Harper	6,172	24	257	41	Smith	4,329	11	394	76
Harvey	31,583	158	200	24	Stafford	4,676	22	213	32
Haskell	4,250	9	472	88	Stanton	2,352	8	294	54
Hodgeman	2,117	12	176	15	Stevens	5,319	18	296	55
Jackson	12,509	37	338	67	Sumner	25,344	83	305	59
Jefferson	18,348	39	470	87	Thomas	7,802	4	1,951	104
Jewell	3,548	9	394	76	Trego	3,090	11	281	50
Johnson	459,925	177	2,598	105	Wabaunsee	6,731	23	293	53
Kearny	4,516	14	323	65	Wallace	1,681	6	280	49
Kingman	8,317	45	185	20	Washington	6,122	26	235	36
Kiowa	3,028	18	168	12	Wichita	2,512	13	193	23
Labette	21,639	87	249	39	Wilson	9,999	50	200	24
Lane	2,068	8	259	42	Woodson	3,644	11	331	66
Leavenworth	63,474	68	933	102	Wyandotte	155,873	194	803	100
Lincoln	3,471	17	204	27	Not Stated		119		
					KANSAS	2,612,976	5,796	451	

Source: U.S. Census Bureau. Adjusted population equals total population minus the population living in group quarters.

Table C-3: Persons per Certified Home Health Aide (HHA) by First Kansas County of Practice, and Rank of County -- Kansas, 2001

First KS County of Practice	* Adjusted Population	Number of HHAs	Persons per HHA	Rank	First KS County of Practice	*Adjusted Population	Number of HHAs	Persons per HHA	Rank
Allen	13,840	35	395	56	Linn	9,552	11	868	96
Anderson	8,061	15	537	77	Logan	2,901	2	1,451	104
Atchison	15,639	40	391	53	Lyon	33,963	115	295	30
Barber	5,099	19	268	20	Marion	12,654	53	239	13
Barton	27,048	67	404	58	Marshall	10,532	34	310	35
Bourbon	15,047	34	443	64	McPherson	27,977	83	337	41
Brown	10,429	19	549	79	Meade	4,532	15	302	31
Butler	58,159	92	632	84	Miami	28,022	28	1,001	100
Chase	2,919	12	243	14	Mitchell	6,440	8	805	93
Chautauqua	4,119	8	515	73	Montgomery	34,638	108	321	36
Cherokee	22,002	26	846	94	Morris	6,036	12	503	72
Cheyenne	3,060	8	383	51	Morton	3,329	5	666	87
Clark	2,325	8	291	28	Nemaha	10,027	16	627	83
Clay	8,606	39	221	11	Neosho	16,287	43	379	50
Cloud	9,341	43	217	10	Ness	3,263	19	172	2
Coffey	8,645	15	576	82	Norton	5,065	14	362	47
Comanche	1,891	9	210	8	Osage	16,667	29	575	81
Cowley	34,139	65	525	74	Osborne	4,228	8	529	76
Crawford	36,127	56	645	86	Ottawa	5,998	24	250	17
Decatur	3,312	9	368	48	Pawnee	6,106	18	339	42
Dickinson	18,820	57	330	38	Phillips	5,733	21	273	23
Doniphan	7,909	11	719	90	Pottawatomie	18,052	46	392	54
Douglas	91,287	100	913	97	Pratt	9,222	35	263	19
Edwards	3,266	10	327	37	Rawlins	2,862	7	409	60
Elk	3,104	8	388	52	Reno	61,011	218	280	24
Ellis	25,999	52	500	69	Republic	5,510	14	394	55
Ellsworth	5,666	28	202	6	Rice	9,723	36	270	21
Finney	39,516	33	1,197	102	Riley	51,420	77	668	88
Ford	31,535	34	928	98	Rooks	5,419	28	194	5
Franklin	24,347	34	716	89	Rush	3,401	12	283	26
Geary	26,213	61	430	63	Russell	6,962	24	290	27
Gove	2,956	6	493	68	Saline	52,201	179	292	29
Graham	2,778	9	309	34	Scott	4,917	27	182	3
Grant	7,720	12	643	85	Sedgwick	449,201	952	472	66
Gray	5,803	25	232	12	Seward	22,021	44	500	69
Greeley	1,476	6	246	16	Shawnee	165,177	468	353	45
Greenwood	7,577	27	281	25	Sheridan	2,683	5	537	77
Hamilton	2,627	5	525	74	Sherman	6,398	17	376	49
Harper	6,172	24	257	18	Smith	4,329	4	1,082	101
Harvey	31,583	92	343	43	Stafford	4,676	23	203	7
Haskell	4,250	5	850	95	Stanton	2,352	3	784	92
Hodgeman	2,117	7	302	31	Stevens	5,319	16	332	39
Jackson	12,509	46	272	22	Sumner	25,344	55	461	65
Jefferson	18,348	43	427	62	Thomas	7,802	8	975	99
Jewell	3,548	23	154	1	Trego	3,090	9	343	43
Johnson	459,925	137	3,357	105	Wabaunsee	6,731	14	481	67
Kearny	4,516	6	753	91	Wallace	1,681	5	336	40
Kingman	8,317	21	396	57	Washington	6,122	25	245	15
Kiowa	3,028	14	216	9	Wichita	2,512	7	359	46
Labette	21,639	53	408	59	Wilson	9,999	20	500	69
Lane	2,068	5	414	61	Woodson	3,644	12	304	33
Leavenworth	63,474	51	1,245	103	Wyandotte	155,873	277	563	80
Lincoln	3,471	19	183	4	Not Stated		247		
KANSAS						2,612,976	5,263	496	

* Source: U.S. Census Bureau. Adjusted population equals total population minus the population living in group quarters

Appendix D
Peer Groups of Counties

Peer Groups of Counties

For the purposes of demographic analysis, counties in Kansas have been grouped by population density into “Peer Groups”, as defined by the Office of Local and Rural Health of the Kansas Department of Health and Environment.

Frontier counties are defined as those with less than 6 persons per square mile, Rural counties as those with 6-19.9 persons per square mile, Densely-Settled Rural counties as those with 20-39.9 persons per square mile, Semi-Urban counties as those with 40-149.9 persons per square mile, and Urban counties as those with 150 or more persons per square mile.

Counties within a peer group are not necessarily contiguous, and the definition of “Peer Groups”, as used here, should not be confused with the U.S. Census Bureau’s definition of urban and rural areas.

Using the above definition, Kansas has 31 frontier counties, 38 rural counties, 19 densely-settled rural counties, 12 semi-urban counties and 5 urban counties (see map on following page).

Peer Groups of Counties
Kansas, 2001

Appendix E

**Persons per Full Time Equivalent (FTE) Professional
By County of Practice**

Calculation of Full Time Equivalents (FTEs)

One method for examining the availability of health care professionals is by use of “full time equivalents” (FTEs). The survey upon which this report is based (Appendix A) gathers information on the distribution of service hours by practice location. This data allows the calculation of full time equivalency statistics by county for each responding professional. Population/professional ratios are then calculated by county (see tables on following four pages).

Calculation of the number of full time equivalent professionals by county is motivated by the need to identify health professional shortage areas. When inadequate health care availability is due to the shortage of primary care physicians, the area may qualify for federal programs due to designation as a Health Professional Shortage Area (HPSA) or Medically Underserved Area (MUA) or an area with a Medically Underserved Population (MUP) for primary care.

The calculation of full time equivalents was prepared based on guidelines set forth by the Code of Federal Regulations (<http://www.access.gpo.gov/nara/cfr>) 42CFR – Part 5, Appendix A – Criteria for Designation of Areas Having Shortages of Primary Medical Care Professionals. One full time equivalent is based on a 40-hour workweek, and the number of hours worked at the three practice sites listed on the questionnaire was assigned to the respective counties. For example, a professional who worked 10 hours at practice site 1 in Shawnee County and 10 hours at practice site 2 in Jackson County would have been counted as .25 FTE in Shawnee County and .25 FTE in Jackson County. In cases where a professional’s total practice hours for all work sites exceeded 40, his FTE for each site was calculated as the proportion of his total hours practiced at that site. In no case was one physician assigned more than 1.0 FTE.

For entries where practice locations were given but the number of hours worked was left blank, FTEs were assigned to be the average number of hours worked by professionals in the same peer group of counties (part time or full time, as appropriate), divided by the number of practice sites listed.

Table E-1: Persons per FTE Speech Language Pathologist (SLP) by County of Practice, and Rank of County– Kansas, 2001

First KS County of Practice	* Adjusted Population	Rank	First KS County of Practice	*Adjusted Population	First KS County of Practice	* Adjusted Population	No of FTE SLPs	Persons per FTE SLP	Rank
Allen	13,840	8.38	1,652	5	Linn	9,552	0.38	25,137	82
Anderson	8,061	1.00	8,061	71	Logan	2,901	4.63	627	1
Atchison	15,639	4.71	3,320	32	Lyon	33,963	1.88	18,065	81
Barber	5,099	0.00	-	-	Marion	12,654	3.60	3,515	35
Barton	27,048	6.68	4,049	45	Marshall	10,532	2.60	4,051	46
Bourbon	15,047	2.00	7,524	68	McPherson	27,977	10.03	2,789	18
Brown	10,429	4.25	2,454	13	Meade	4,532	0.05	90,640	87
Butler	58,159	14.68	3,962	44	Miami	28,022	8.28	3,384	34
Chase	2,919	0.00	-	-	Mitchell	6,440	3.73	1,727	6
Chautauqua	4,119	1.00	4,119	48	Montgomery	34,638	8.28	4,183	50
Cherokee	22,002	2.38	9,245	73	Morris	6,036	0.78	7,738	69
Cheyenne	3,060	0.05	61,200	85	Morton	3,329	0.00	-	-
Clark	2,325	0.00	-	-	Nemaha	10,027	3.88	2,584	16
Clay	8,606	2.60	3,310	31	Neosho	16,287	1.05	15,511	78
Cloud	9,341	2.98	3,135	26	Ness	3,263	0.07	46,614	83
Coffey	8,645	0.50	17,290	80	Norton	5,065	1.05	4,824	55
Comanche	1,891	0.00	-	-	Osage	16,667	3.43	4,859	56
Cowley	34,139	10.97	3,112	25	Osborne	4,228	1.08	3,915	43
Crawford	36,127	7.69	4,698	54	Ottawa	5,998	0.00	-	-
Decatur	3,312	0.75	4,416	53	Pawnee	6,106	3.32	1,839	8
Dickinson	18,820	2.35	8,009	70	Phillips	5,733	3.30	1,737	7
Doniphan	7,909	1.10	7,190	67	Pottawatomie	18,052	4.35	4,150	49
Douglas	91,287	31.31	2,916	20	Pratt	9,222	4.88	1,890	9
Edwards	3,266	0.00	-	-	Rawlins	2,862	0.75	3,816	41
Elk	3,104	0.00	-	-	Reno	61,011	15.00	4,067	47
Ellis	25,999	16.00	1,625	4	Republic	5,510	1.00	5,510	60
Ellsworth	5,666	0.00	-	-	Rice	9,723	3.88	2,506	15
Finney	39,516	7.60	5,199	58	Riley	51,420	21.13	2,434	12
Ford	31,535	5.02	6,282	64	Rooks	5,419	1.98	2,737	17
Franklin	24,347	6.88	3,539	36	Rush	3,401	0.50	6,802	66
Geary	26,213	8.08	3,244	28	Russell	6,962	2.40	2,901	19
Gove	2,956	1.00	2,956	22	Saline	52,201	16.48	3,168	27
Graham	2,778	0.00	-	-	Scott	4,917	0.85	5,785	62
Grant	7,720	6.45	1,197	2	Sedgwick	449,201	138.37	3,246	29
Gray	5,803	4.18	1,388	3	Seward	22,021	6.00	3,670	38
Greeley	1,476	0.02	73,800	86	Shawnee	165,177	55.51	2,976	24
Greenwood	7,577	0.13	58,285	84	Sheridan	2,683	0.80	3,354	33
Hamilton	2,627	0.45	5,838	63	Sherman	6,398	1.73	3,698	40
Harper	6,172	1.40	4,409	52	Smith	4,329	1.03	4,203	51
Harvey	31,583	8.27	3,819	42	Stafford	4,676	1.60	2,923	21
Haskell	4,250	0.00	-	-	Stanton	2,352	0.45	5,227	59
Hodgeman	2,117	0.00	-	-	Stevens	5,319	0.00	-	-
Jackson	12,509	5.78	2,164	11	Sumner	25,344	6.90	3,673	39
Jefferson	18,348	3.70	4,959	57	Thomas	7,802	1.35	5,779	61
Jewell	3,548	0.28	12,671	77	Trego	3,090	0.00	-	-
Johnson	459,925	155.27	2,962	23	Wabaunsee	6,731	1.00	6,731	65
Kearny	4,516	0.00	-	-	Wallace	1,681	0.19	8,847	72
Kingman	8,317	0.80	10,396	75	Washington	6,122	0.58	10,555	76
Kiowa	3,028	0.18	16,822	79	Wichita	2,512	0.00	-	-
Labette	21,639	8.68	2,493	14	Wilson	9,999	0.00	-	-
Lane	2,068	0.99	2,089	10	Woodson	3,644	0.38	9,589	74
Leavenworth	63,474	17.39	3,650	37	Wyandotte	155,873	47.96	3,250	30
Lincoln	3,471	0.00	-	-	KANSAS	2,612,976	762.40	3,427	

Source: U.S. Census Bureau. Adjusted population equals total population minus the population living in group quarters.

Table E-2: Persons per FTE Audiologist by County of Practice, and Rank of County – Kansas, 2001

First KS County of Practice	* Adjusted Population	Number of FTE Audiologists	Persons per FTE Audiologist	Rank	First KS County of Practice	*Adjusted Population	Number of FTE Audiologists	Persons per FTE Audiologist	Rank
Allen	13,840	0.00	-	-	Linn	9,552	0.00	-	-
Anderson	8,061	0.00	-	-	Logan	2,901	1.00	2,901	1
Atchison	15,639	0.00	-	-	Lyon	33,963	0.50	67,926	21
Barber	5,099	0.00	-	-	Marion	12,654	0.44	28,759	16
Barton	27,048	0.05	540,960	25	Marshall	10,532	0.00	-	-
Bourbon	15,047	0.00	-	-	McPherson	27,977	0.00	-	-
Brown	10,429	0.00	-	-	Meade	4,532	0.00	-	-
Butler	58,159	0.00	-	-	Miami	28,022	0.20	140,110	24
Chase	2,919	0.00	-	-	Mitchell	6,440	0.00	-	-
Chautauqua	4,119	0.00	-	-	Montgomery	34,638	0.00	-	-
Cherokee	22,002	0.00	-	-	Morris	6,036	0.00	-	-
Cheyenne	3,060	0.00	-	-	Morton	3,329	0.00	-	-
Clark	2,325	0.00	-	-	Nemaha	10,027	0.00	-	-
Clay	8,606	0.00	-	-	Neosho	16,287	0.00	-	-
Cloud	9,341	0.00	-	-	Ness	3,263	0.00	-	-
Coffey	8,645	0.00	-	-	Norton	5,065	0.00	-	-
Comanche	1,891	0.00	-	-	Osage	16,667	0.00	-	-
Cowley	34,139	0.00	-	-	Osborne	4,228	0.00	-	-
Crawford	36,127	2.50	14,451	5	Ottawa	5,998	0.00	-	-
Decatur	3,312	0.00	-	-	Pawnee	6,106	0.00	-	-
Dickinson	18,820	0.00	-	-	Phillips	5,733	0.00	-	-
Doniphan	7,909	0.00	-	-	Pottawatomie	18,052	0.50	36,104	18
Douglas	91,287	5.08	17,970	8	Pratt	9,222	0.00	-	-
Edwards	3,266	0.00	-	-	Rawlins	2,862	0.00	-	-
Elk	3,104	0.00	-	-	Reno	61,011	2.73	22,348	12
Ellis	25,999	1.75	14,857	6	Republic	5,510	0.00	-	-
Ellsworth	5,666	0.00	-	-	Rice	9,723	0.00	-	-
Finney	39,516	1.00	39,516	19	Riley	51,420	3.99	12,887	4
Ford	31,535	0.50	63,070	20	Rooks	5,419	0.00	-	-
Franklin	24,347	0.33	73,779	22	Rush	3,401	0.00	-	-
Geary	26,213	0.00	-	-	Russell	6,962	0.00	-	-
Gove	2,956	0.00	-	-	Saline	52,201	2.90	18,000	9
Graham	2,778	0.00	-	-	Scott	4,917	0.00	-	-
Grant	7,720	1.00	7,720	3	Sedgwick	449,201	22.47	19,991	10
Gray	5,803	0.00	-	-	Seward	22,021	0.21	104,862	23
Greeley	1,476	0.00	-	-	Shawnee	165,177	6.91	23,904	14
Greenwood	7,577	0.00	-	-	Sheridan	2,683	0.00	-	-
Hamilton	2,627	0.00	-	-	Sherman	6,398	0.00	-	-
Harper	6,172	0.00	-	-	Smith	4,329	0.00	-	-
Harvey	31,583	1.45	21,781	11	Stafford	4,676	0.00	-	-
Haskell	4,250	0.00	-	-	Stanton	2,352	0.00	-	-
Hodgeman	2,117	0.00	-	-	Stevens	5,319	0.00	-	-
Jackson	12,509	0.00	-	-	Sumner	25,344	0.00	-	-
Jefferson	18,348	0.00	-	-	Thomas	7,802	0.00	-	-
Jewell	3,548	0.00	-	-	Trego	3,090	0.00	-	-
Johnson	459,925	16.10	28,567	15	Wabaunsee	6,731	0.00	-	-
Kearny	4,516	0.00	-	-	Wallace	1,681	0.00	-	-
Kingman	8,317	0.00	-	-	Washington	6,122	0.00	-	-
Kiowa	3,028	0.00	-	-	Wichita	2,512	0.00	-	-
Labette	21,639	0.91	23,779	13	Wilson	9,999	0.00	-	-
Lane	2,068	0.00	-	-	Woodson	3,644	0.78	4,672	2
Leavenworth	63,474	1.79	35,460	17	Wyandotte	155,873	10.10	15,433	7
Lincoln	3,471	0.00	-	-	KANSAS	2,612,976	85.19	30,672	

Source: U.S. Census Bureau. Adjusted population equals total population minus the population living in group quarters.

Table E-3: Persons per FTE Dietitian by County of Practice, and Rank of County – Kansas, 2001

First KS County of Practice	* Adjusted Population	Number of FTE Dietitians	Persons per FTE Dietitian	Rank	First KS County of Practice	*Adjusted Population	Number of FTE Dietitians	Persons per FTE Dietitian	Rank
Allen	13,840	1.00	13,840	51	Linn	9,552	0.00	-	-
Anderson	8,061	0.05	161,220	68	Logan	2,901	0.05	58,020	65
Atchison	15,639	2.13	7,342	28	Lyon	33,963	4.08	8,324	33
Barber	5,099	1.00	5,099	14	Marion	12,654	1.13	11,198	42
Barton	27,048	3.58	7,555	29	Marshall	10,532	0.55	19,149	54
Bourbon	15,047	1.13	13,316	47	McPherson	27,977	3.40	8,229	31
Brown	10,429	1.00	10,429	40	Meade	4,532	0.00	-	-
Butler	58,159	2.50	23,264	59	Miami	28,022	3.70	7,574	30
Chase	2,919	0.00	-	-	Mitchell	6,440	1.30	4,954	13
Chautauqua	4,119	0.00	-	-	Montgomery	34,638	1.98	17,494	53
Cherokee	22,002	0.00	-	-	Morris	6,036	0.18	33,533	61
Cheyenne	3,060	0.00	-	-	Morton	3,329	0.10	33,290	60
Clark	2,325	0.00	-	-	Nemaha	10,027	0.00	-	-
Clay	8,606	1.35	6,375	23	Neosho	16,287	1.68	9,695	38
Cloud	9,341	0.70	13,344	48	Ness	3,263	0.00	-	-
Coffey	8,645	0.95	9,100	36	Norton	5,065	0.00	-	-
Comanche	1,891	0.00	-	-	Osage	16,667	1.00	16,667	52
Cowley	34,139	3.21	10,635	41	Osborne	4,228	1.00	4,228	6
Crawford	36,127	3.60	10,035	39	Ottawa	5,998	0.00	-	-
Decatur	3,312	0.15	22,080	58	Pawnee	6,106	1.00	6,106	22
Dickinson	18,820	0.88	21,386	55	Phillips	5,733	0.00	-	-
Doniphan	7,909	0.00	-	-	Pottawatomie	18,052	4.84	3,730	5
Douglas	91,287	10.29	8,871	34	Pratt	9,222	1.28	7,205	27
Edwards	3,266	0.00	-	-	Rawlins	2,862	0.00	-	-
Elk	3,104	0.00	-	-	Reno	61,011	4.44	13,741	50
Ellis	25,999	5.54	4,693	10	Republic	5,510	1.00	5,510	20
Ellsworth	5,666	1.05	5,396	19	Rice	9,723	0.00	-	-
Finney	39,516	5.80	6,813	24	Riley	51,420	26.34	1,952	1
Ford	31,535	4.58	6,885	25	Rooks	5,419	0.48	11,290	43
Franklin	24,347	1.11	21,934	56	Rush	3,401	0.10	34,010	62
Geary	26,213	6.01	4,362	7	Russell	6,962	1.25	5,570	21
Gove	2,956	1.00	2,956	3	Saline	52,201	11.44	4,563	8
Graham	2,778	0.21	13,229	46	Scott	4,917	1.00	4,917	12
Grant	7,720	1.50	5,147	16	Sedgwick	449,201	47.03	9,551	37
Gray	5,803	0.00	-	-	Seward	22,021	1.00	22,021	57
Greeley	1,476	0.00	-	-	Shawnee	165,177	45.21	3,654	4
Greenwood	7,577	0.00	-	-	Sheridan	2,683	0.20	13,415	49
Hamilton	2,627	0.00	-	-	Sherman	6,398	1.33	4,811	11
Harper	6,172	0.00	-	-	Smith	4,329	0.00	-	-
Harvey	31,583	3.83	8,246	32	Stafford	4,676	0.00	-	-
Haskell	4,250	0.00	-	-	Stanton	2,352	0.00	-	-
Hodgeman	2,117	0.00	-	-	Stevens	5,319	0.00	-	-
Jackson	12,509	0.00	-	-	Sumner	25,344	0.45	56,320	64
Jefferson	18,348	0.05	366,960	69	Thomas	7,802	1.45	5,381	18
Jewell	3,548	0.28	12,671	45	Trego	3,090	0.66	4,682	9
Johnson	459,925	51.69	8,898	35	Wabaunsee	6,731	0.00	-	-
Kearny	4,516	0.05	90,320	66	Wallace	1,681	0.00	-	-
Kingman	8,317	0.20	41,585	63	Washington	6,122	0.53	11,551	44
Kiowa	3,028	0.00	-	-	Wichita	2,512	1.00	2,512	2
Labette	21,639	4.20	5,152	17	Wilson	9,999	0.09	111,100	67
Lane	2,068	0.00	-	-	Woodson	3,644	0.00	-	-
Leavenworth	63,474	8.95	7,092	26	Wyandotte	155,873	30.52	5,107	15
Lincoln	3,471	0.00	-	-	KANSAS	2,612,976	332.36	7,862	

Source: U.S. Census Bureau. Adjusted population equals total population minus the population living in group quarters.

Table E-4: Persons per FTE Adult Care Home Administrator (ACH Admin.) by County of Practice, and Rank of County – Kansas, 2001

First KS County of Practice	*Adjusted Population	Number of FTE ACH Admins.	Persons per FTE ACH Admin	Rank	First KS County of Practice	*Adjusted Population	Number of FTE ACH Admins.	Persons per FTE ACH Admin	Rank
Allen	13,840	3.20	4,325	28	Linn	9,552	1.00	9,552	61
Anderson	8,061	2.00	4,031	26	Logan	2,901	0.00	-	-
Atchison	15,639	2.10	7,447	51	Lyon	33,963	3.23	10,515	66
Barber	5,099	3.00	1,700	3	Marion	12,654	5.00	2,531	9
Barton	27,048	3.10	8,725	58	Marshall	10,532	1.00	10,532	67
Bourbon	15,047	1.10	13,679	71	McPherson	27,977	5.10	5,486	41
Brown	10,429	1.00	10,429	64	Meade	4,532	1.00	4,532	29
Butler	58,159	6.13	9,488	60	Miami	28,022	2.13	13,156	70
Chase	2,919	2.10	1,390	2	Mitchell	6,440	1.00	6,440	48
Chautauqua	4,119	2.05	2,009	7	Montgomery	34,638	7.63	4,540	30
Cherokee	22,002	3.06	7,190	50	Morris	6,036	1.00	6,036	45
Cheyenne	3,060	1.00	3,060	14	Morton	3,329	0.00	-	-
Clark	2,325	1.00	2,325	8	Nemaha	10,027	5.00	2,005	6
Clay	8,606	1.00	8,606	56	Neosho	16,287	5.14	3,169	17
Cloud	9,341	3.50	2,669	11	Ness	3,263	1.00	3,263	18
Coffey	8,645	0.00	-	-	Norton	5,065	1.00	5,065	37
Comanche	1,891	1.10	1,719	4	Osage	16,667	3.30	5,051	36
Cowley	34,139	8.30	4,113	27	Osborne	4,228	1.10	3,844	24
Crawford	36,127	7.00	5,161	38	Ottawa	5,998	1.00	5,998	44
Decatur	3,312	1.00	3,312	19	Pawnee	6,106	0.00	-	-
Dickinson	18,820	5.00	3,764	23	Phillips	5,733	0.00	-	-
Doniphan	7,909	0.00	-	-	Pottawatomie	18,052	1.10	16,411	74
Douglas	91,287	9.52	9,589	62	Pratt	9,222	1.00	9,222	59
Edwards	3,266	0.00	-	-	Rawlins	2,862	1.10	2,602	10
Elk	3,104	0.00	-	-	Reno	61,011	9.50	6,422	47
Ellis	25,999	3.00	8,666	57	Republic	5,510	3.00	1,837	5
Ellsworth	5,666	1.00	5,666	43	Rice	9,723	2.00	4,862	32
Finney	39,516	2.00	19,758	78	Riley	51,420	5.25	9,794	63
Ford	31,535	4.10	7,691	53	Rooks	5,419	0.00	-	-
Franklin	24,347	1.00	24,347	79	Rush	3,401	0.00	-	-
Geary	26,213	0.00	-	-	Russell	6,962	0.63	11,051	68
Gove	2,956	0.00	-	-	Saline	52,201	10.63	4,911	33
Graham	2,778	1.00	2,778	12	Scott	4,917	0.00	-	-
Grant	7,720	0.00	-	-	Sedgwick	449,201	27.78	16,170	73
Gray	5,803	2.00	2,902	13	Seward	22,021	2.10	10,486	65
Greeley	1,476	0.00	-	-	Shawnee	165,177	23.33	7,080	49
Greenwood	7,577	1.00	7,577	52	Sheridan	2,683	0.00	-	-
Hamilton	2,627	0.00	-	-	Sherman	6,398	1.20	5,332	40
Harper	6,172	1.00	6,172	46	Smith	4,329	1.10	3,935	25
Harvey	31,583	5.71	5,531	42	Stafford	4,676	1.00	4,676	31
Haskell	4,250	0.00	-	-	Stanton	2,352	0.00	-	-
Hodgeman	2,117	0.00	-	-	Stevens	5,319	1.00	5,319	39
Jackson	12,509	1.00	12,509	69	Sumner	25,344	5.10	4,969	34
Jefferson	18,348	1.10	16,680	75	Thomas	7,802	1.00	7,802	54
Jewell	3,548	1.00	3,548	21	Trego	3,090	1.00	3,090	16
Johnson	459,925	30.70	14,981	72	Wabaunsee	6,731	0.00	-	-
Kearny	4,516	0.00	-	-	Wallace	1,681	1.90	885	1
Kingman	8,317	1.00	8,317	55	Washington	6,122	2.00	3,061	15
Kiowa	3,028	0.00	-	-	Wichita	2,512	0.00	-	-
Labette	21,639	6.10	3,547	20	Wilson	9,999	2.00	5,000	35
Lane	2,068	0.00	-	-	Woodson	3,644	1.00	3,644	22
Leavenworth	63,474	3.29	19,293	77	Wyandotte	155,873	8.38	18,601	76
Lincoln	3,471	0.00	-	-	KANSAS	2,612,976	292.99	8,918	

Source: U.S. Census Bureau. Adjusted population equals total population minus the population living in group quarters.

Appendix F
National Rankings

Table F-1

Ranking of Persons per Speech Language Pathologist (SLP) by State
July 2002

State	Population	Number of SLPs	Persons per SLP	Rank
Alabama	4,464,356	939	4,754	49
Alaska	634,892	213	2,981	22
Arizona	5,307,331	1,332	3,984	46
Arkansas	2,692,090	1,209	2,227	4
California	34,501,130	7,080	4,873	50
Colorado	4,417,714	1,607	2,749	17
Connecticut	3,425,074	1,495	2,291	8
Delaware	796,165	211	3,773	40
District of Columbia	571,822	147	3,890	44
Florida	16,396,515	4,605	3,561	34
Georgia	8,383,915	2,274	3,687	38
Hawaii	1,224,398	308	3,975	45
Idaho	1,321,006	390	3,387	31
Illinois	12,482,301	4,507	2,770	18
Indiana	6,114,745	1,530	3,997	47
Iowa	2,923,179	832	3,513	33
Kansas	2,694,641	1,096	2,459	11
Kentucky	4,065,556	1,258	3,232	27
Louisiana	4,465,430	1,446	3,088	24
Maine	1,286,670	502	2,563	14
Maryland	5,375,156	2,165	2,483	13
Massachusetts	6,379,304	2,855	2,234	5
Michigan	9,990,817	2,782	3,591	35
Minnesota	4,972,294	1,712	2,904	19
Mississippi	2,858,029	794	3,600	36
Missouri	5,629,707	2,135	2,637	16
Montana	904,433	242	3,737	39
Nebraska	1,713,235	705	2,430	9
Nevada	2,106,074	389	5,414	51
New Hampshire	1,259,181	510	2,469	12
New Jersey	8,484,431	2,908	2,918	21
New Mexico	1,829,146	891	2,053	1
New York	19,011,378	8,416	2,259	6
North Carolina	8,186,268	2,658	3,080	23
North Dakota	634,448	300	2,115	3
Ohio	11,373,541	3,253	3,496	32
Oklahoma	3,460,097	1,188	2,913	20
Oregon	3,472,867	1,056	3,289	28
Pennsylvania	12,287,150	3,629	3,386	30
Rhode Island	1,058,920	435	2,434	10
South Carolina	4,063,011	1,059	3,837	43
South Dakota	756,600	241	3,139	26
Tennessee	5,740,021	1,512	3,796	41
Texas	21,325,018	5,257	4,056	48
Utah	2,269,789	597	3,802	42
Vermont	613,090	293	2,092	2
Virginia	7,187,734	2,124	3,384	29
Washington	5,987,973	1,644	3,642	37
West Virginia	1,801,916	578	3,118	25
Wisconsin	5,401,906	2,384	2,266	7
Wyoming	494,423	191	2,589	15
All U.S.	284,796,877	87,884	3,241	

Source: American Speech-Language-Hearing Association at:
<http://professional.asha.org/resources/factsheets/>

Table F-2

Ranking of Persons per Audiologist by State
July 2002

State	Population	Number of Audiologists	Persons per Audiologist	Rank
Alabama	4,464,356	183	24,395	35
Alaska	634,892	30	21,163	20
Arizona	5,307,331	246	21,575	24
Arkansas	2,692,090	107	25,160	36
California	34,501,130	1,015	33,991	47
Colorado	4,417,714	311	14,205	1
Connecticut	3,425,074	178	19,242	14
Delaware	796,165	31	25,683	38
District of Columbia	571,822	35	16,338	3
Florida	16,396,515	624	26,276	39
Georgia	8,383,915	283	29,625	44
Hawaii	1,224,398	48	25,508	37
Idaho	1,321,006	50	26,420	40
Illinois	12,482,301	589	21,192	21
Indiana	6,114,745	268	22,816	28
Iowa	2,923,179	185	15,801	2
Kansas	2,694,641	135	19,960	16
Kentucky	4,065,556	108	37,644	49
Louisiana	4,465,430	186	24,008	34
Maine	1,286,670	45	28,593	42
Maryland	5,375,156	329	16,338	3
Massachusetts	6,379,304	344	18,544	13
Michigan	9,990,817	468	21,348	22
Minnesota	4,972,294	287	17,325	5
Mississippi	2,858,029	106	26,963	41
Missouri	5,629,707	243	23,168	29
Montana	904,433	17	53,202	51
Nebraska	1,713,235	93	18,422	12
Nevada	2,106,074	45	46,802	50
New Hampshire	1,259,181	41	30,712	46
New Jersey	8,484,431	356	23,833	32
New Mexico	1,829,146	90	20,324	17
New York	19,011,378	915	20,777	19
North Carolina	8,186,268	341	24,007	33
North Dakota	634,448	36	17,624	8
Ohio	11,373,541	636	17,883	10
Oklahoma	3,460,097	117	29,573	43
Oregon	3,472,867	149	23,308	30
Pennsylvania	12,287,150	567	21,670	26
Rhode Island	1,058,920	59	17,948	11
South Carolina	4,063,011	111	36,604	48
South Dakota	756,600	35	21,617	25
Tennessee	5,740,021	298	19,262	15
Texas	21,325,018	713	29,909	45
Utah	2,269,789	131	17,327	7
Vermont	613,090	27	22,707	27
Virginia	7,187,734	302	23,800	31
Washington	5,987,973	336	17,821	9
West Virginia	1,801,916	104	17,326	6
Wisconsin	5,401,906	261	20,697	18
Wyoming	494,423	23	21,497	23
All U.S.	284,796,887	12,237	23,273	

Source: American Speech-Language-Hearing Association at:
<http://professional.asha.org/resources/factsheets/>